

Fig.1

Fig.2

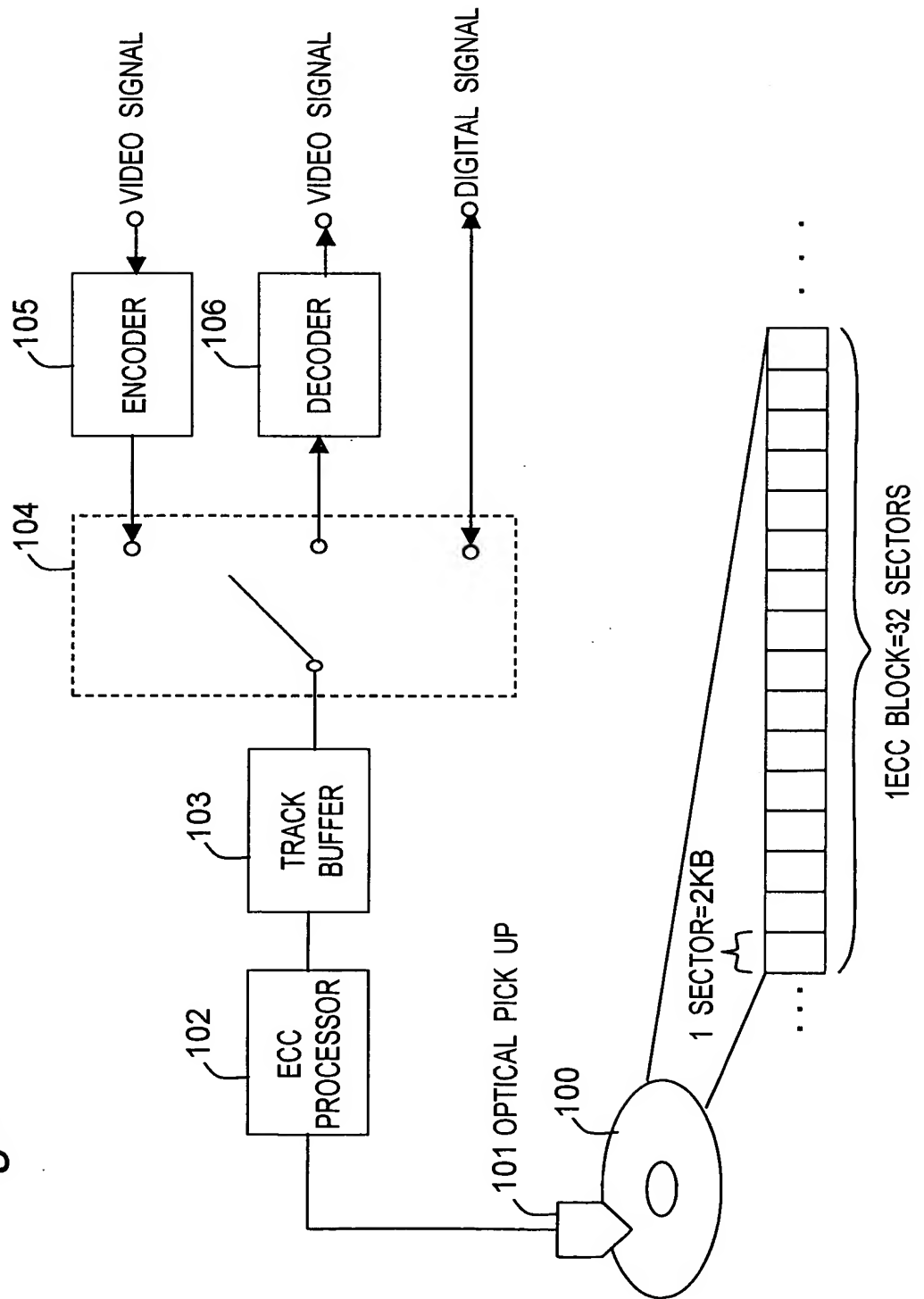


Fig.3A

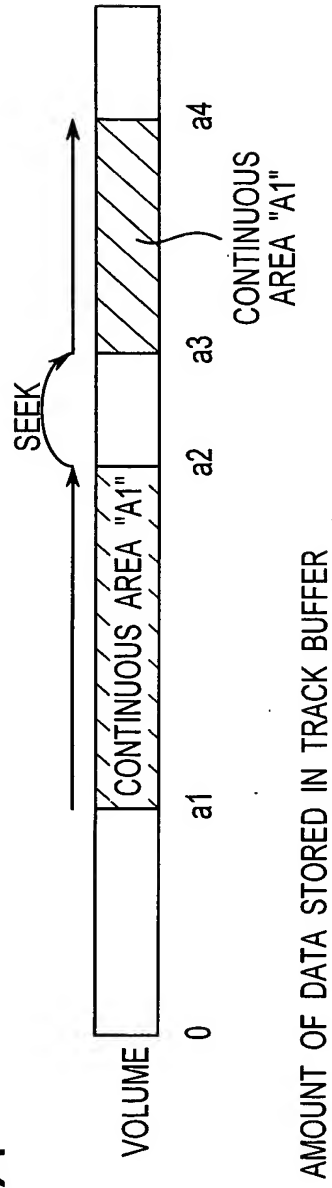


Fig.3B

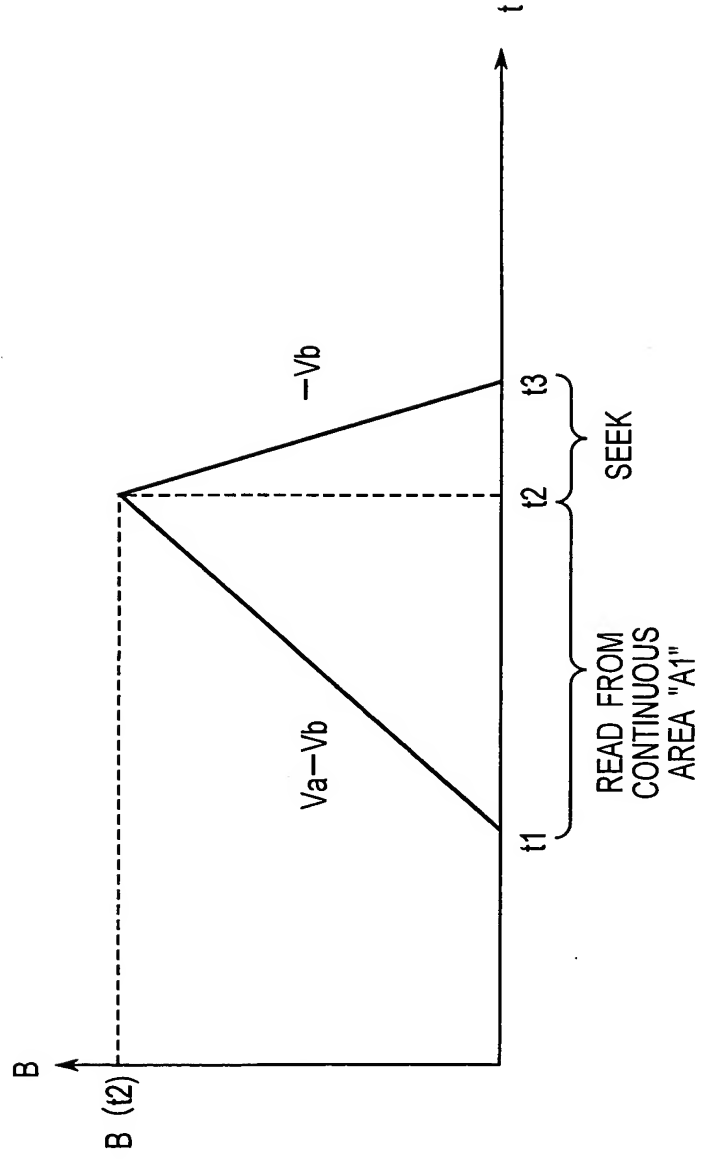


Fig.4

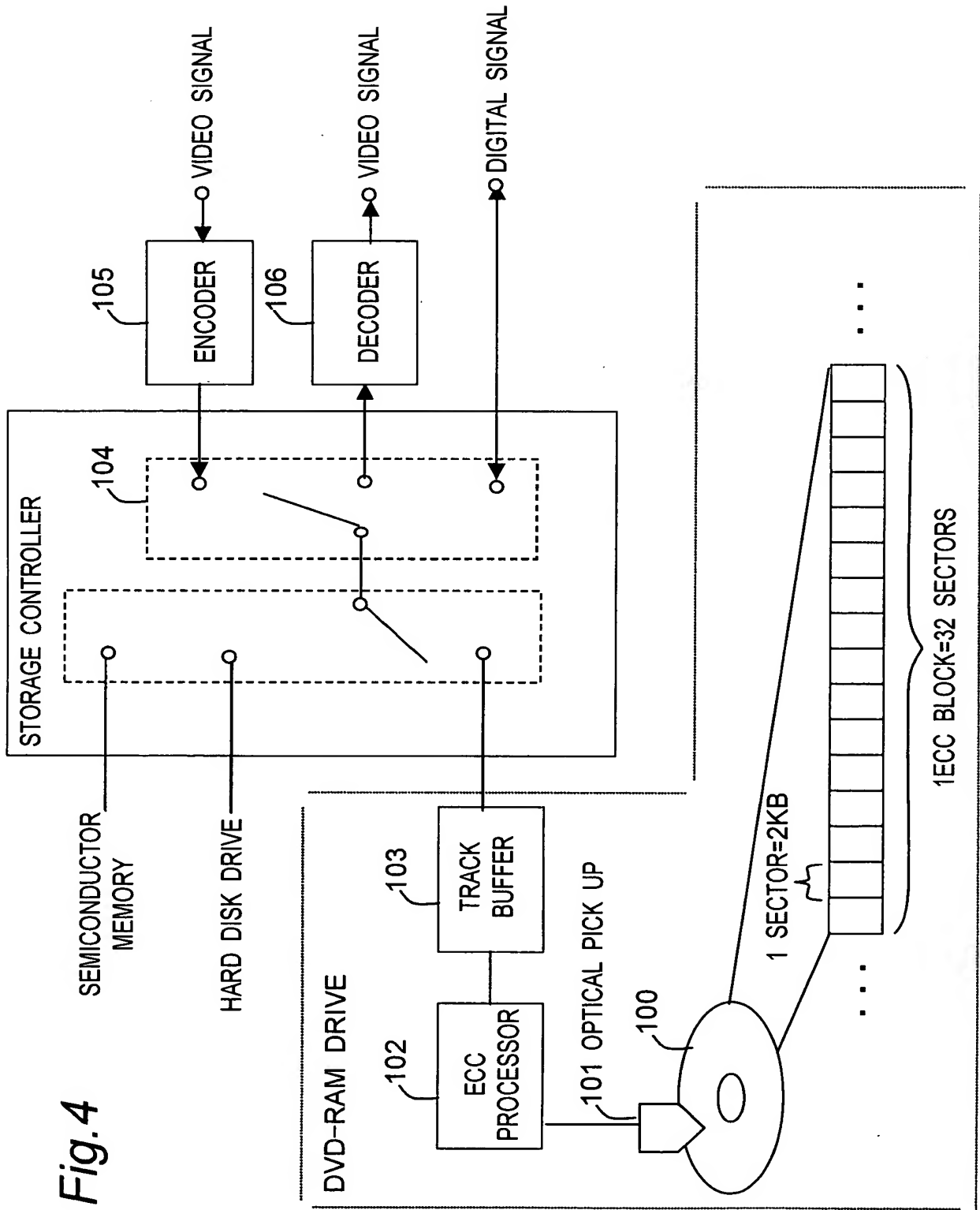


Fig. 5A

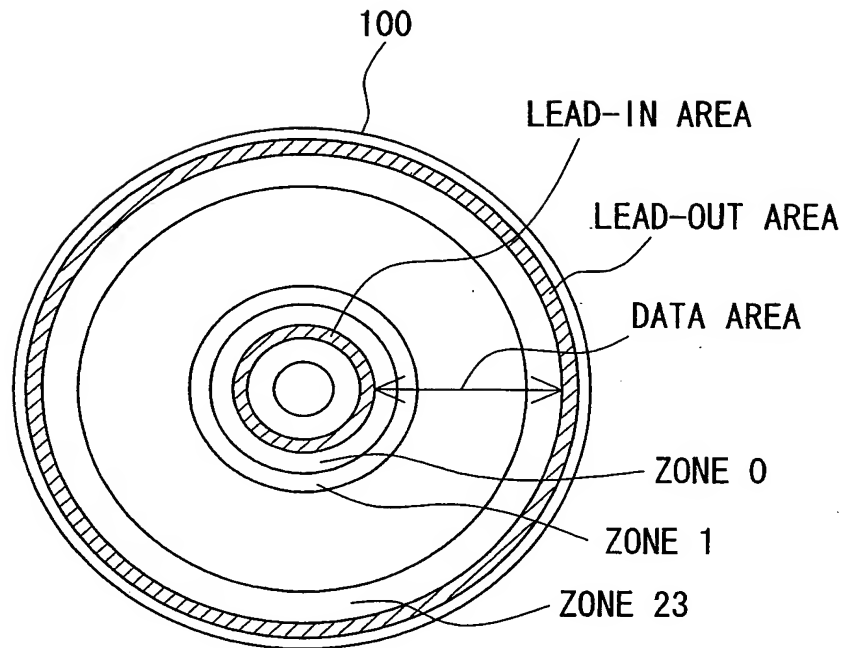


Fig. 5B

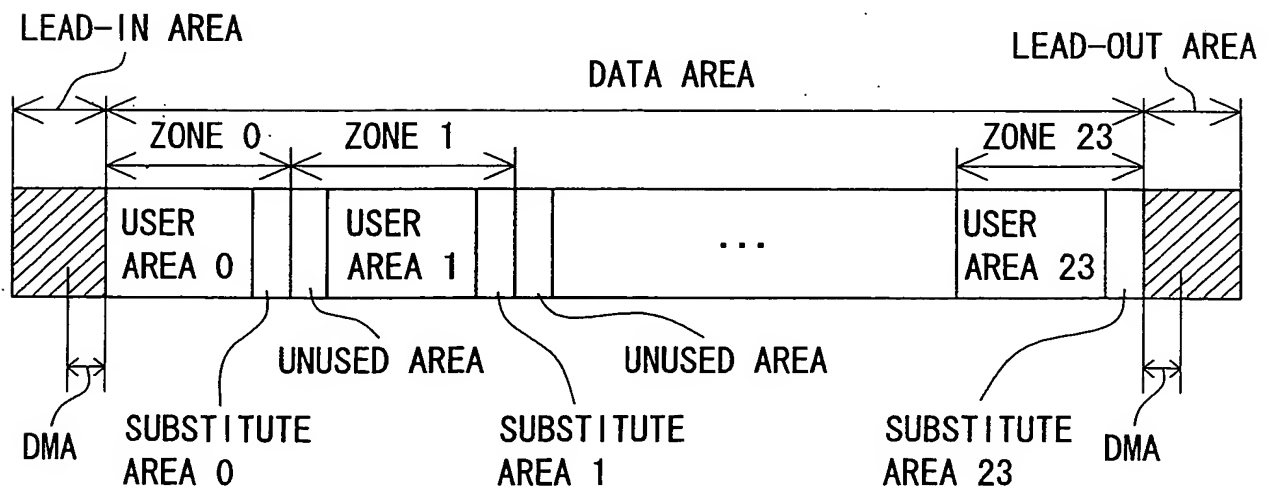


Fig. 6A

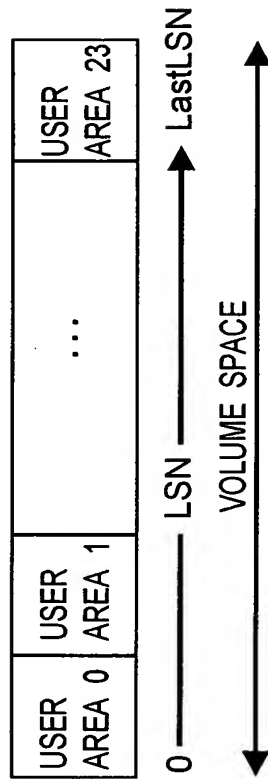


Fig. 6B

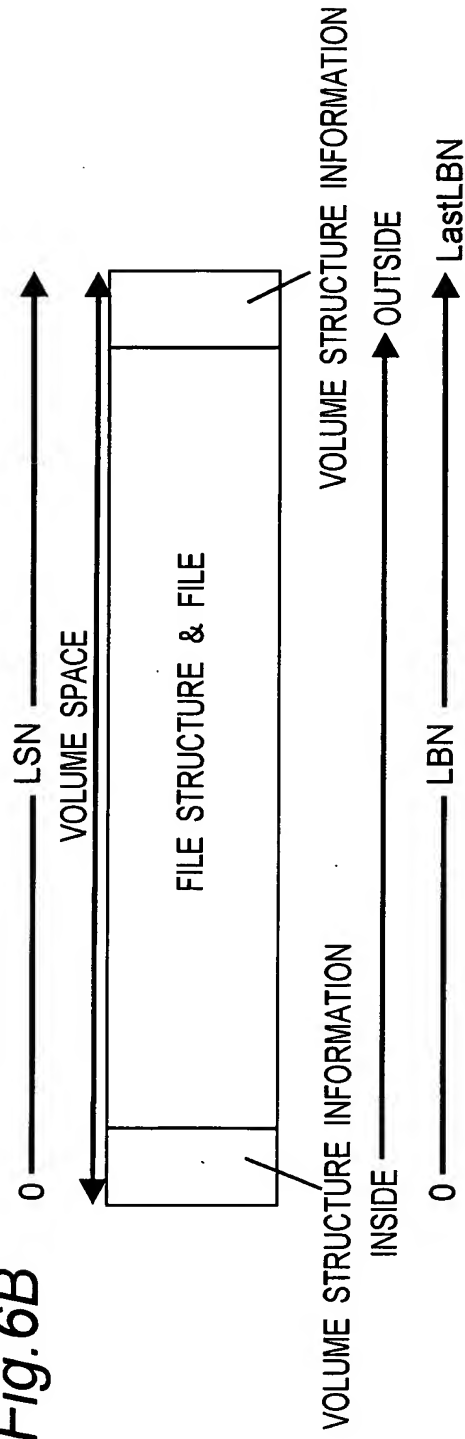


Fig. 7

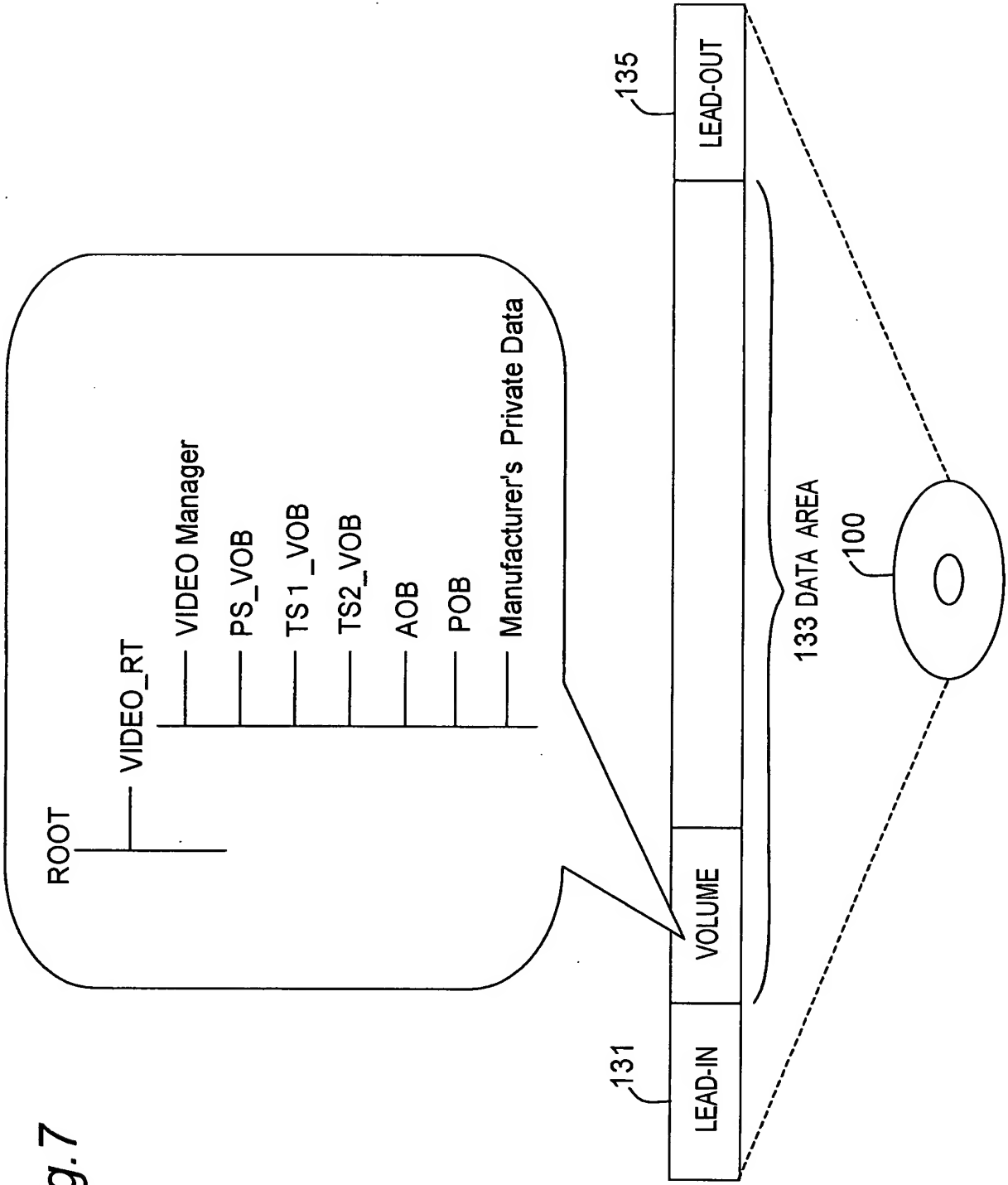


Fig. 8

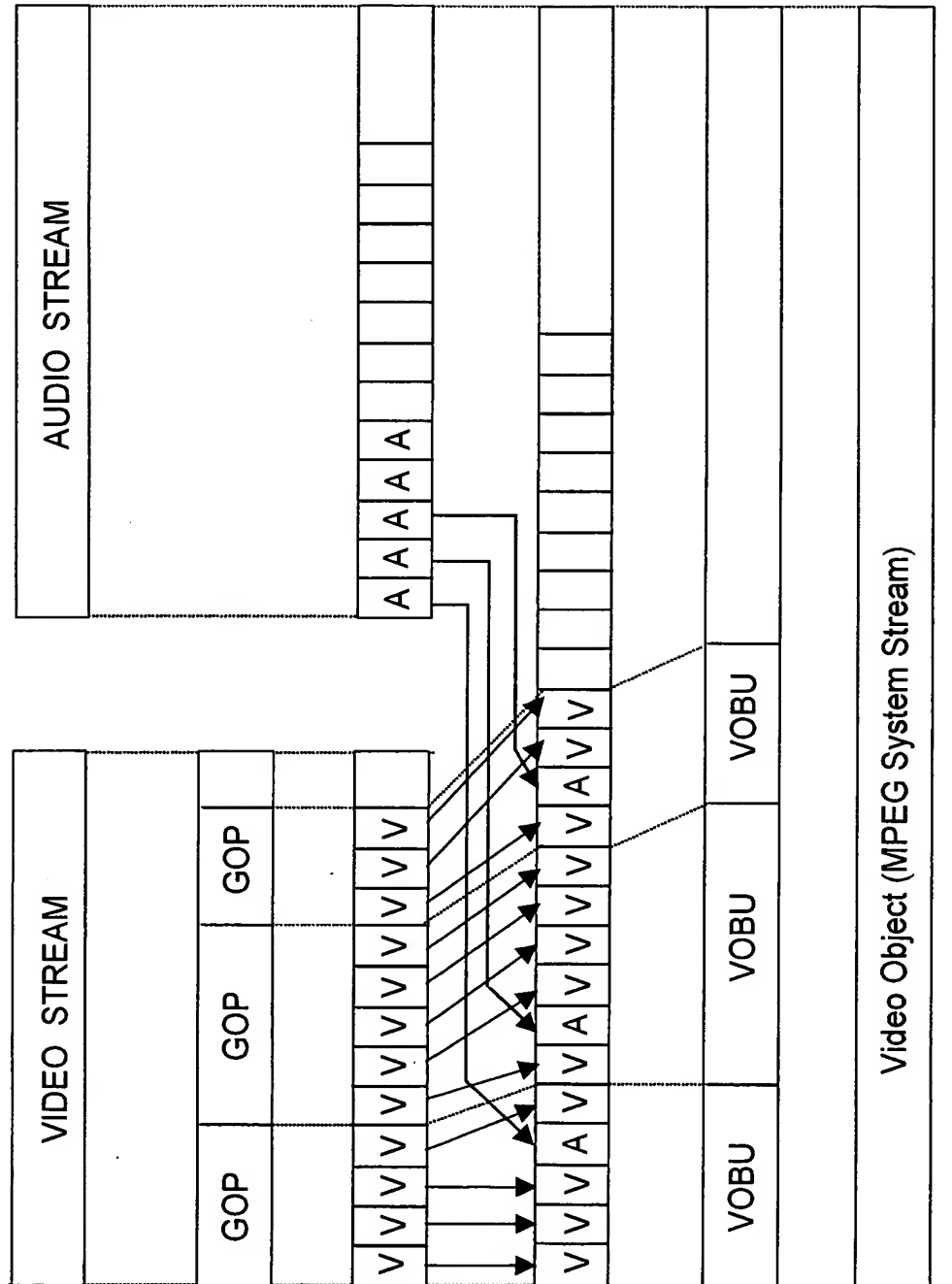
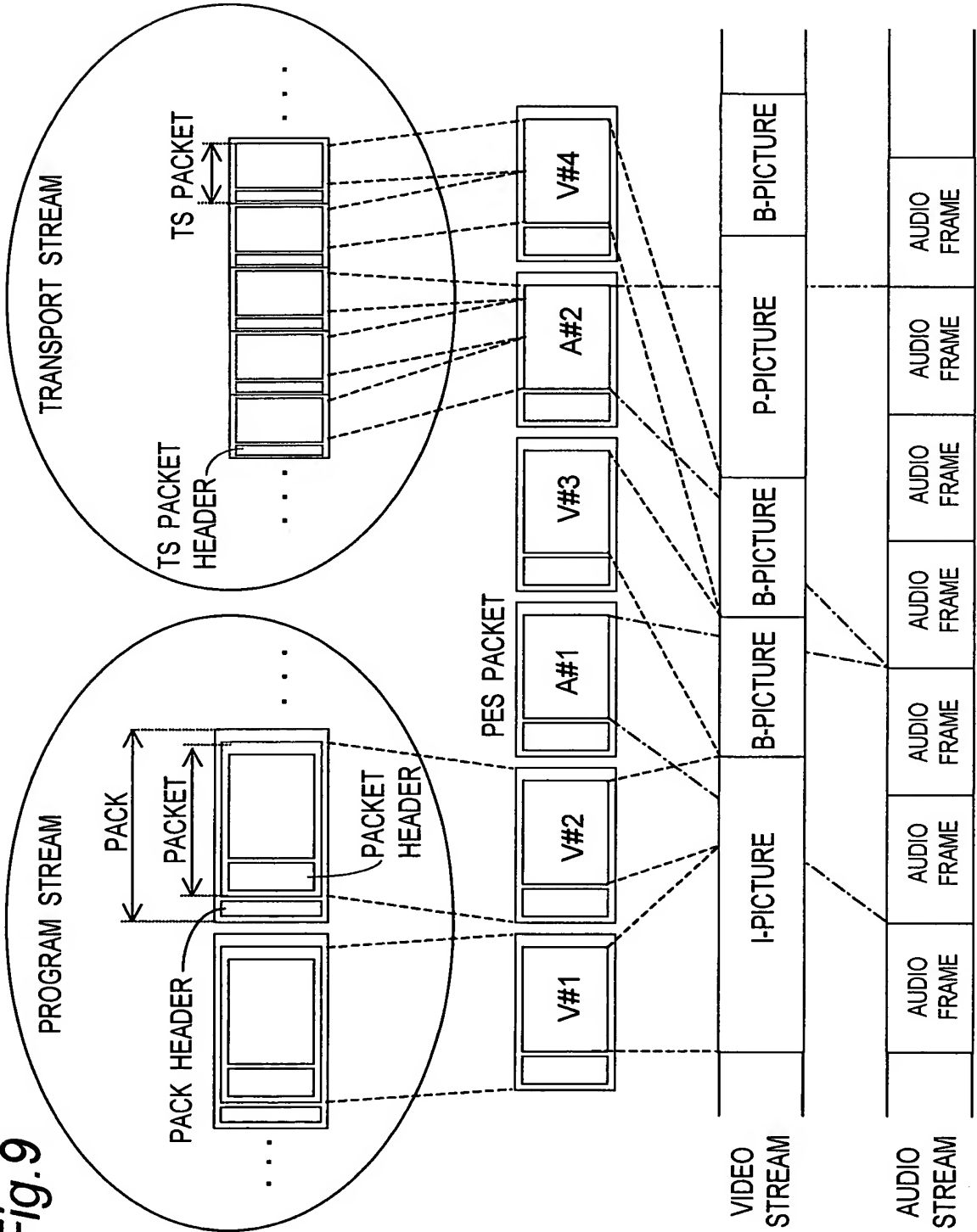
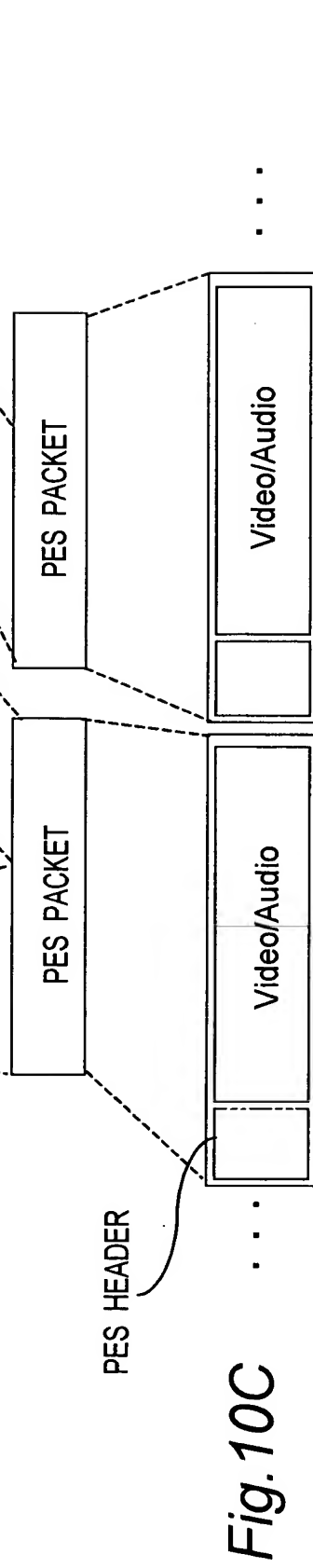
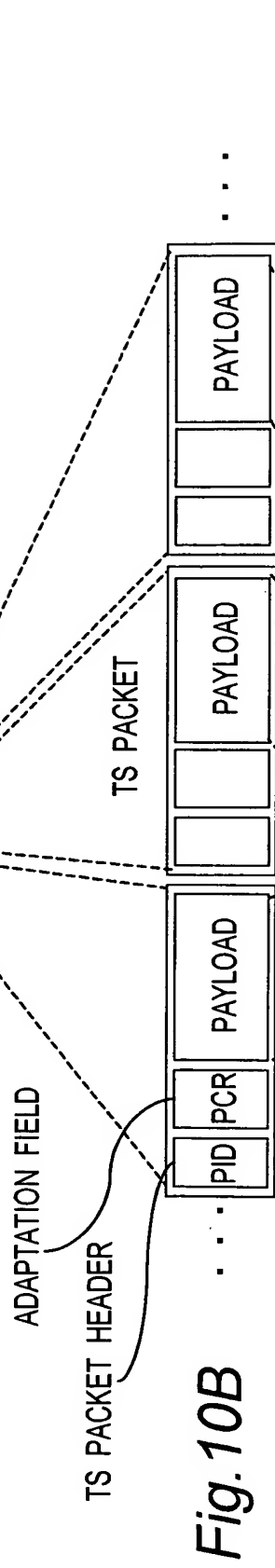
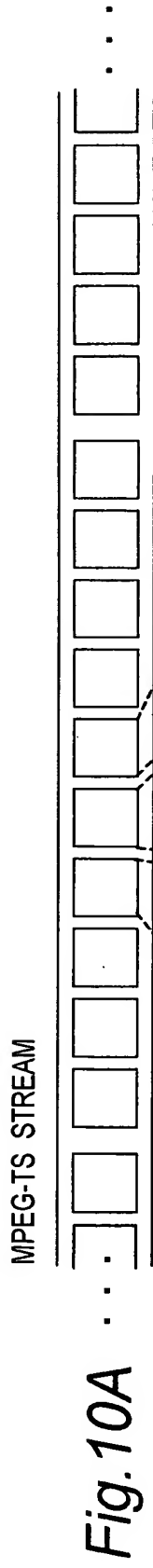


Fig. 9





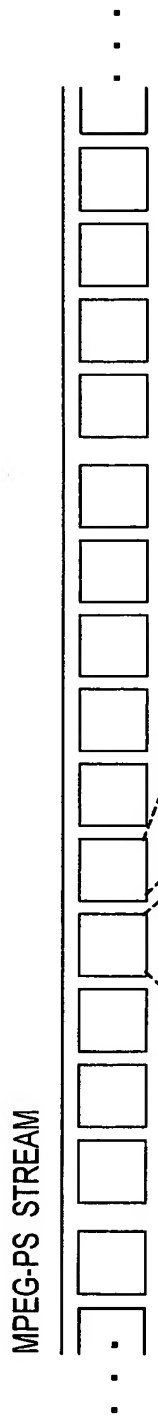


Fig. 11A

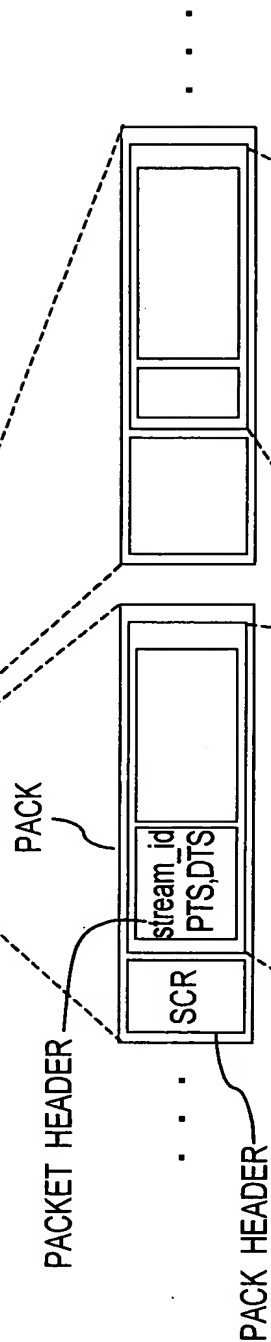


Fig. 11B

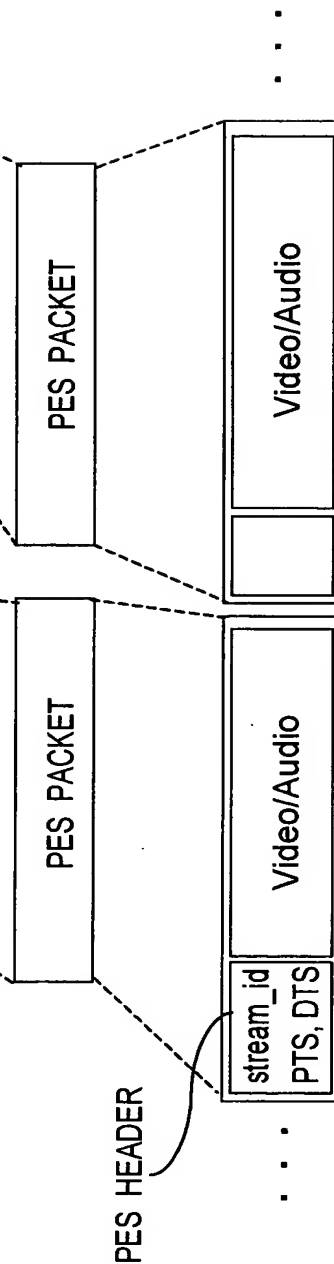


Fig. 11C

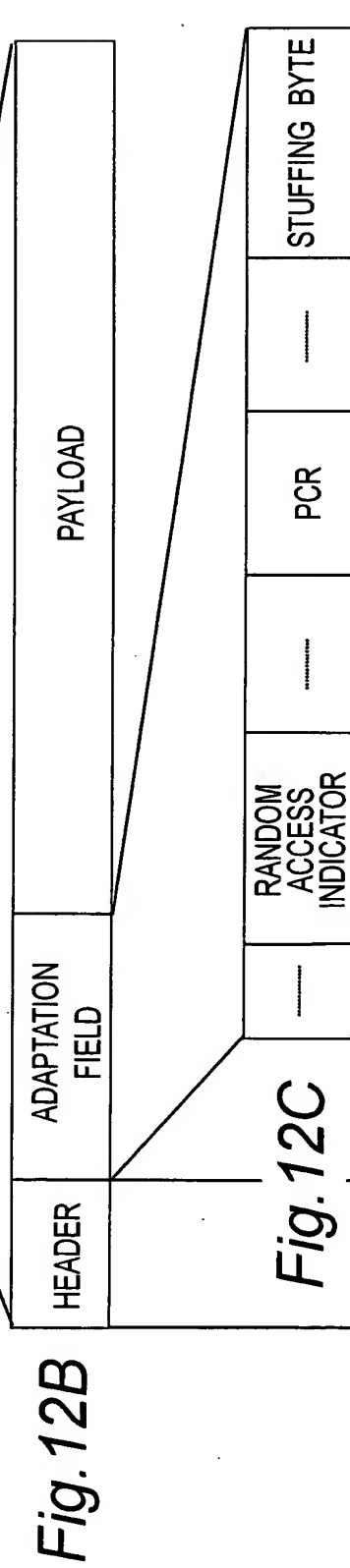
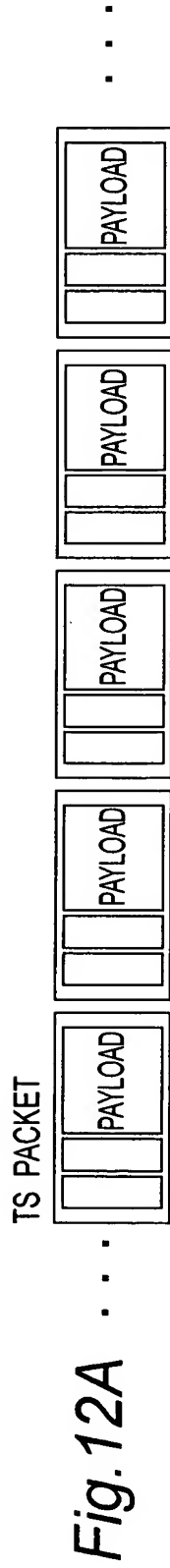


Fig. 12C

INDICATING HEAD OF VIDEO/AUDIO
FRAME AND ENTRY POINT

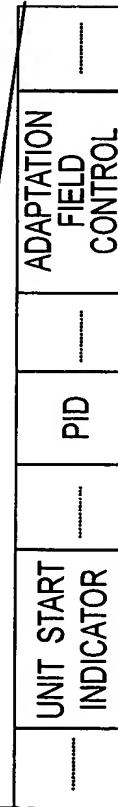


Fig. 12D

INDICATING TYPE & ATTRIBUTE OF STREAM

INDICATING START OF NEW PES PACKET

Fig.13A

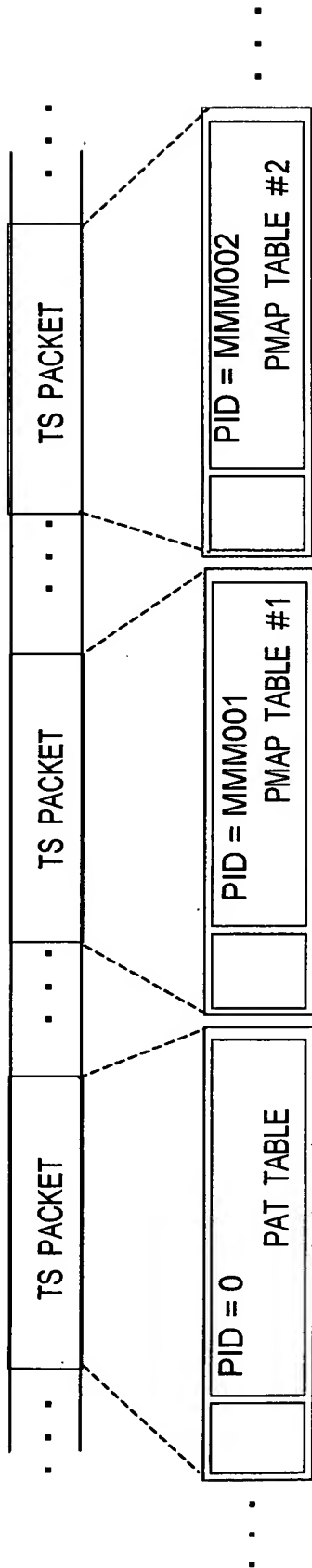


Fig.13B

PAT TABLE	
PROGRAM 1	PMAP TABLE #1
PROGRAM 2	PMAP TABLE #2
PROGRAM n	PMAP TABLE #n

Fig.13C1

PMAP TABLE #1	
Video	PID=w001
Audio	PID=aa002

Fig.13C2

PMAP TABLE #2	
Video	PID=w002
Audio	PID=aa001

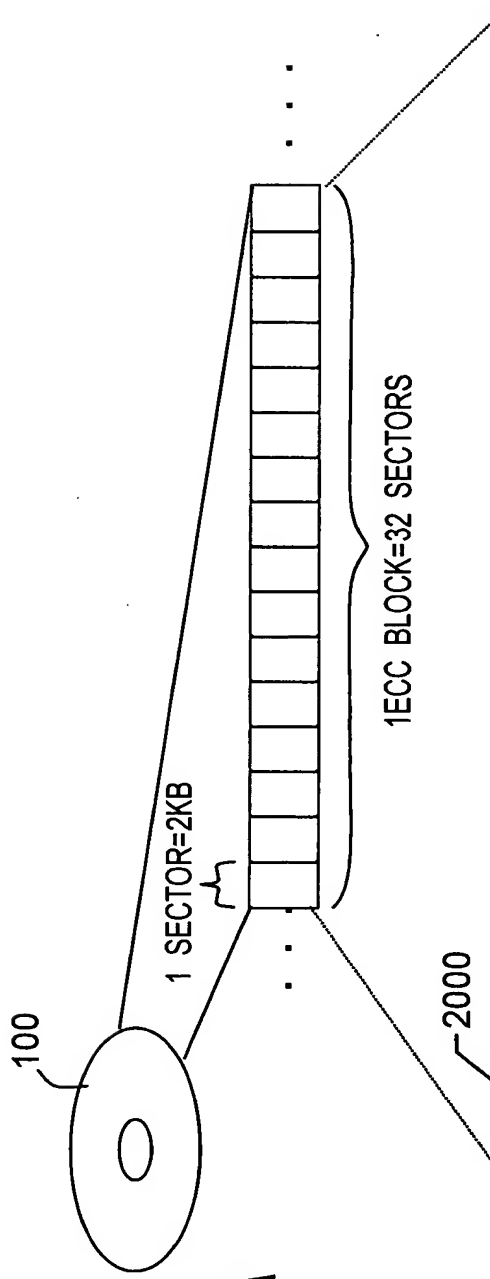


Fig. 14A

PS-VOB				
2001				
PS Pack (2KB)	PS Pack (2KB)	PS Pack (2KB)	...	PS Pack (2KB)

Fig. 14B

1000				
TS1-VOB/TS2-VOB				
1001 1002				
ATS (4B)	TS packet (188B)	ATS (4B)	TS packet (188B)	ATS (4B)
TS packet (188B)	TS packet (188B)	TS packet (188B)	TS packet (188B)	TS packet (188B)

Fig. 14C

Fig.15A

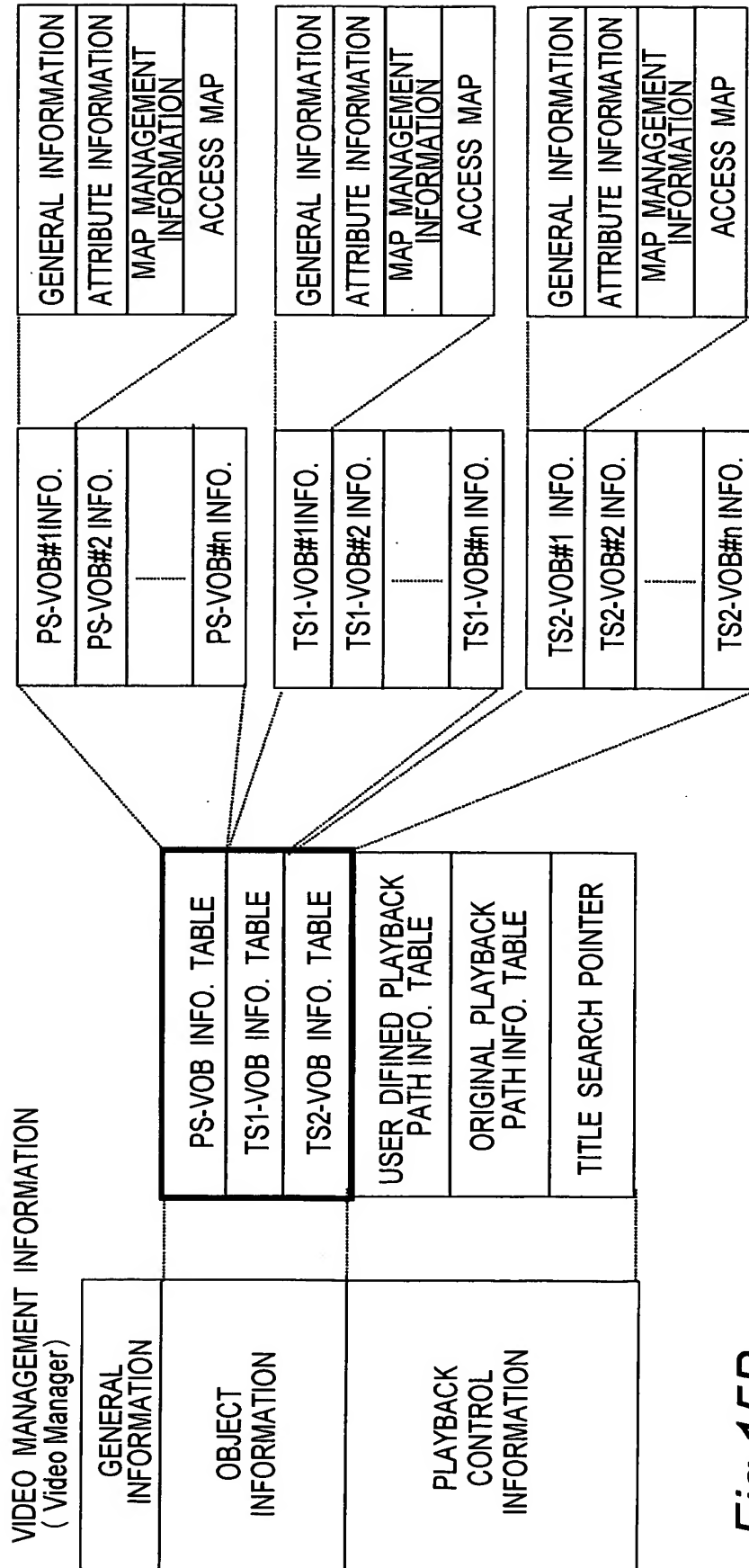
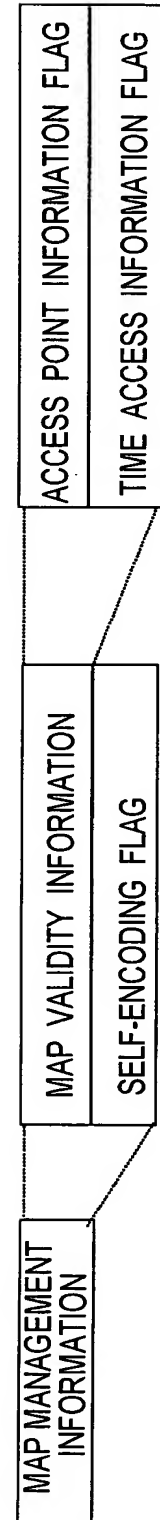


Fig.15B



VIDEO MANAGEMENT INFORMATION
(Video Manager)

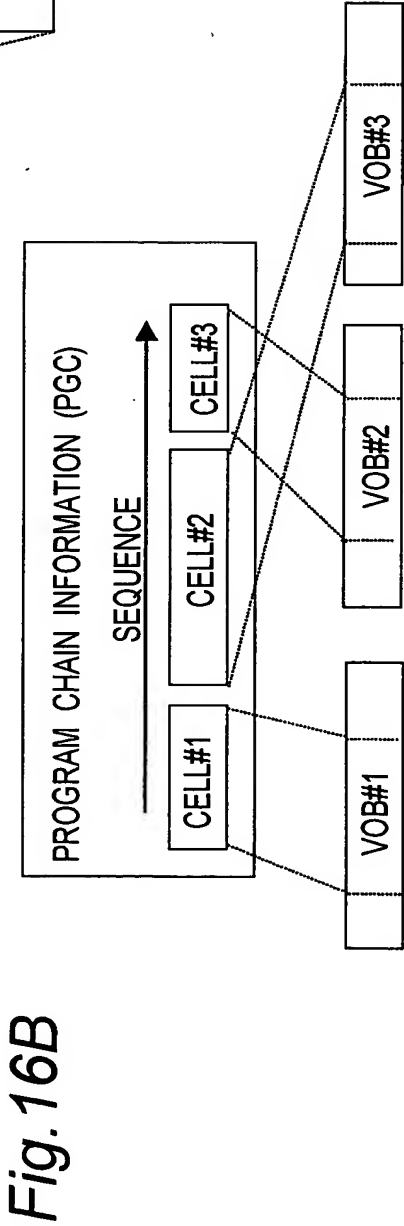
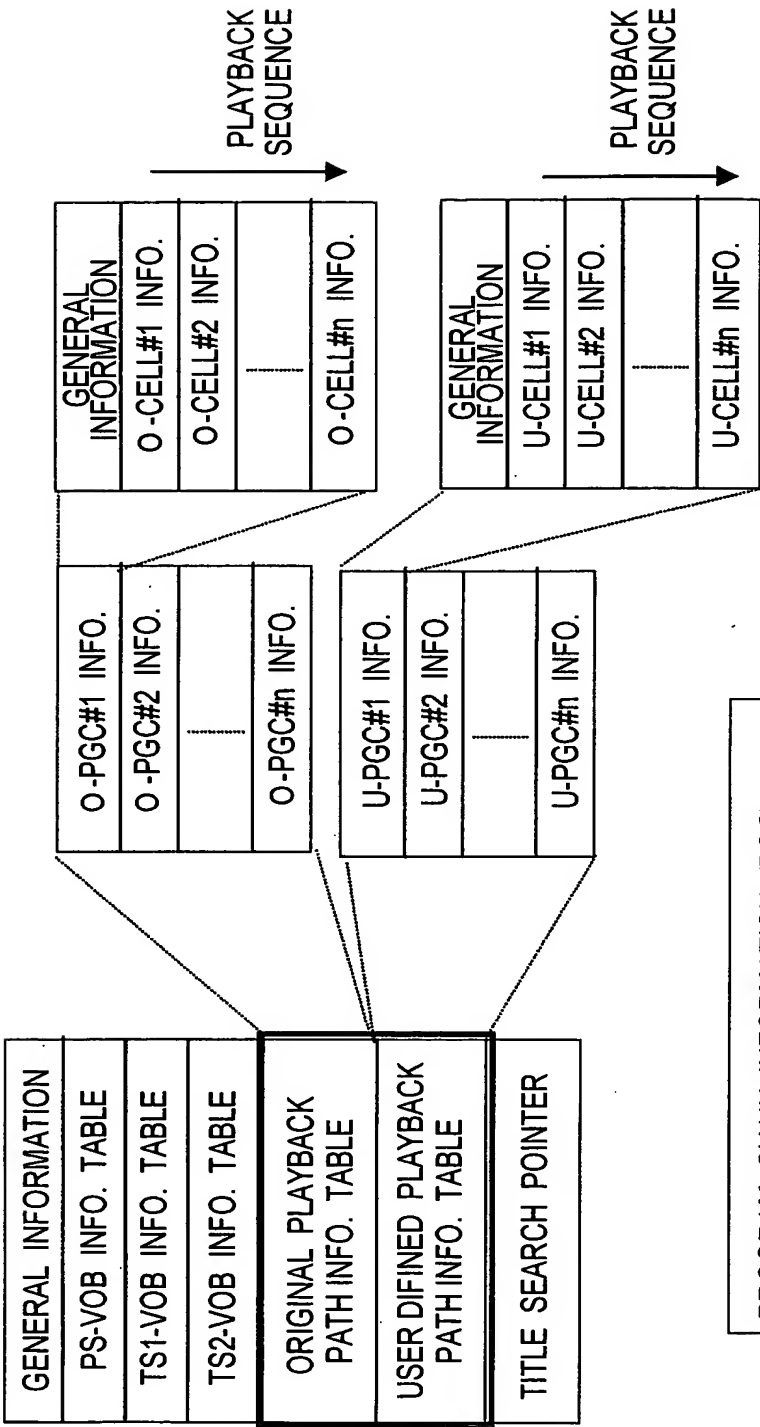


Fig. 17

VIDEO MANAGEMENT INFORMATION (VIDEO MANAGER)

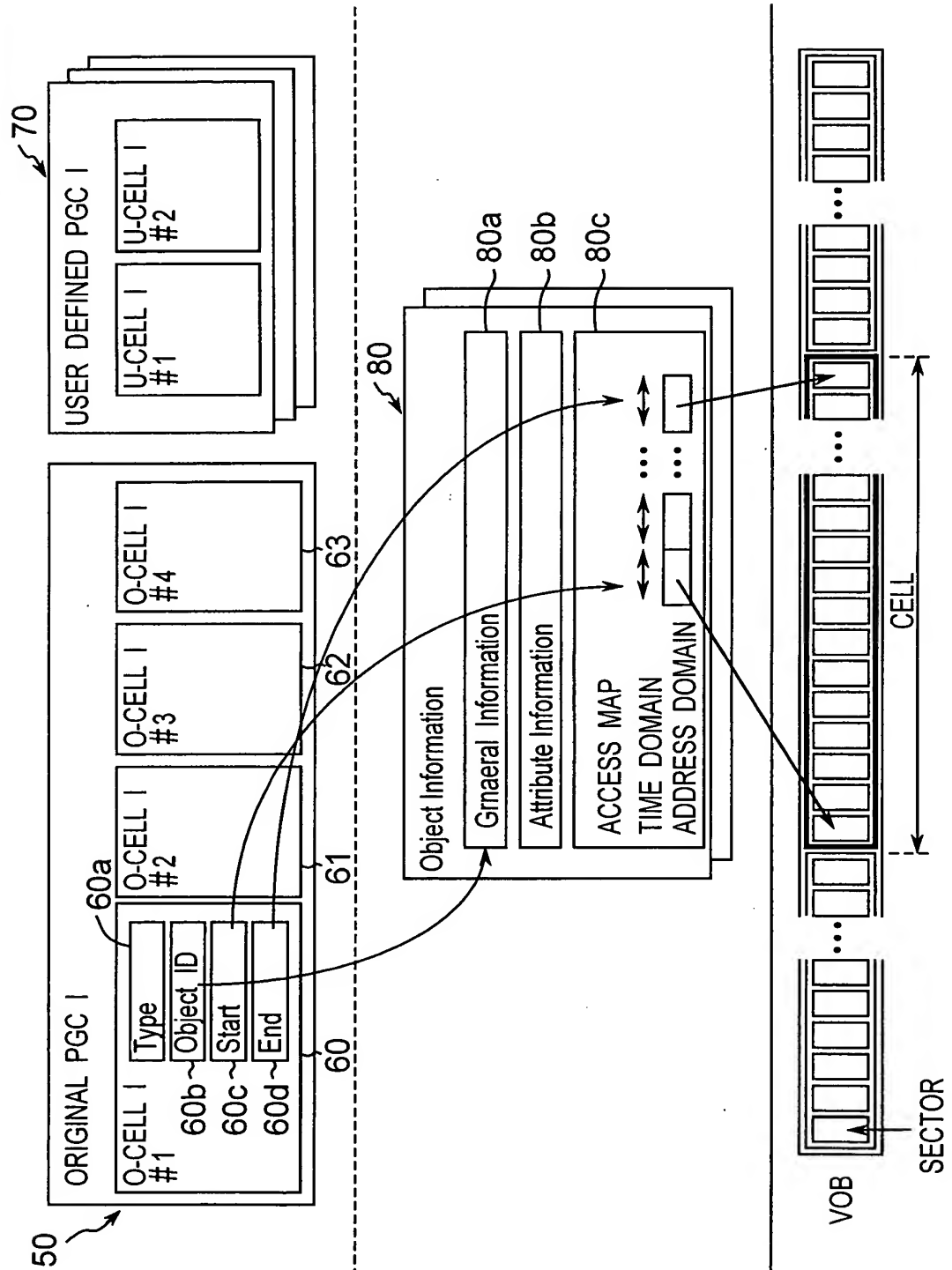


Fig. 18

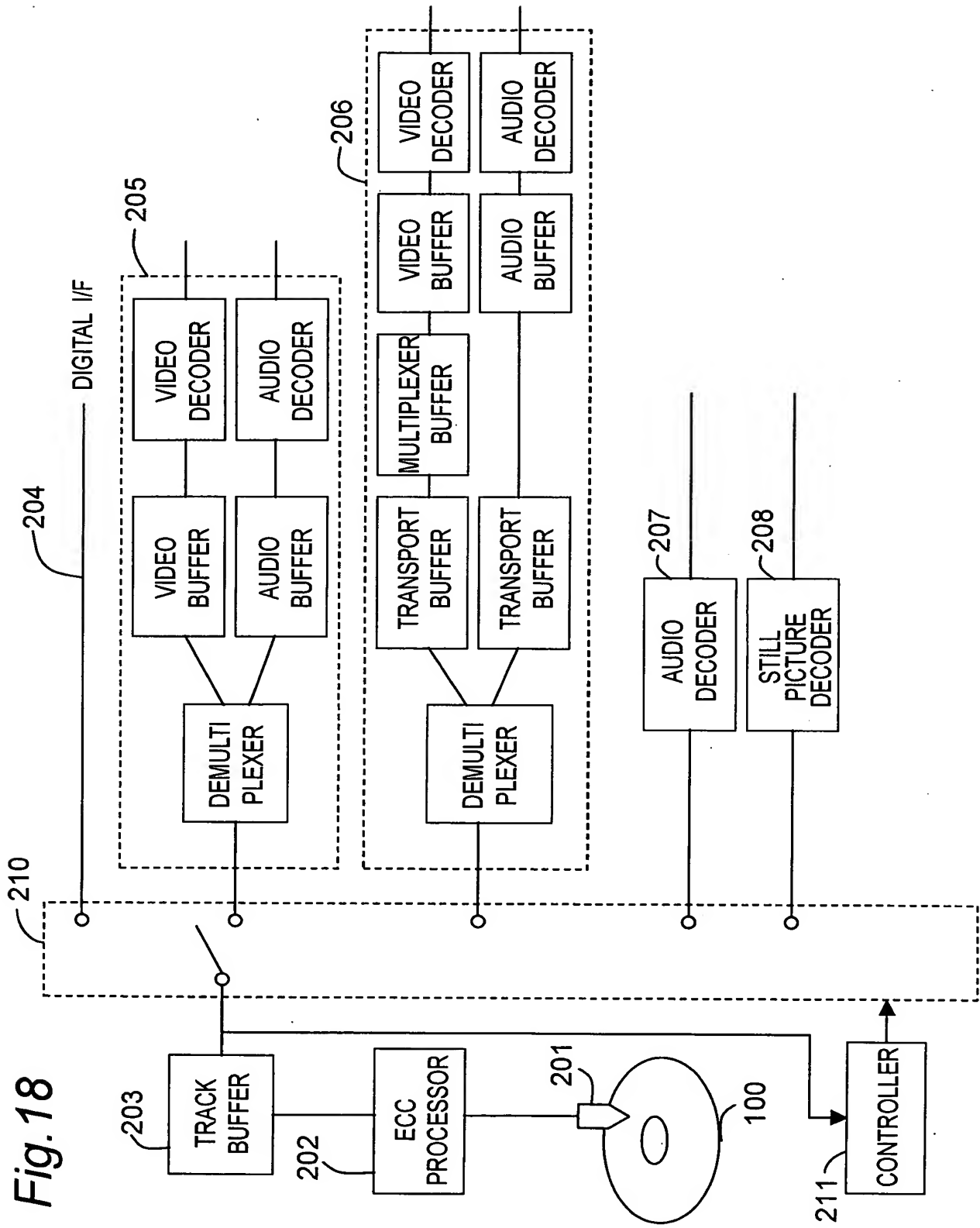


Fig. 19

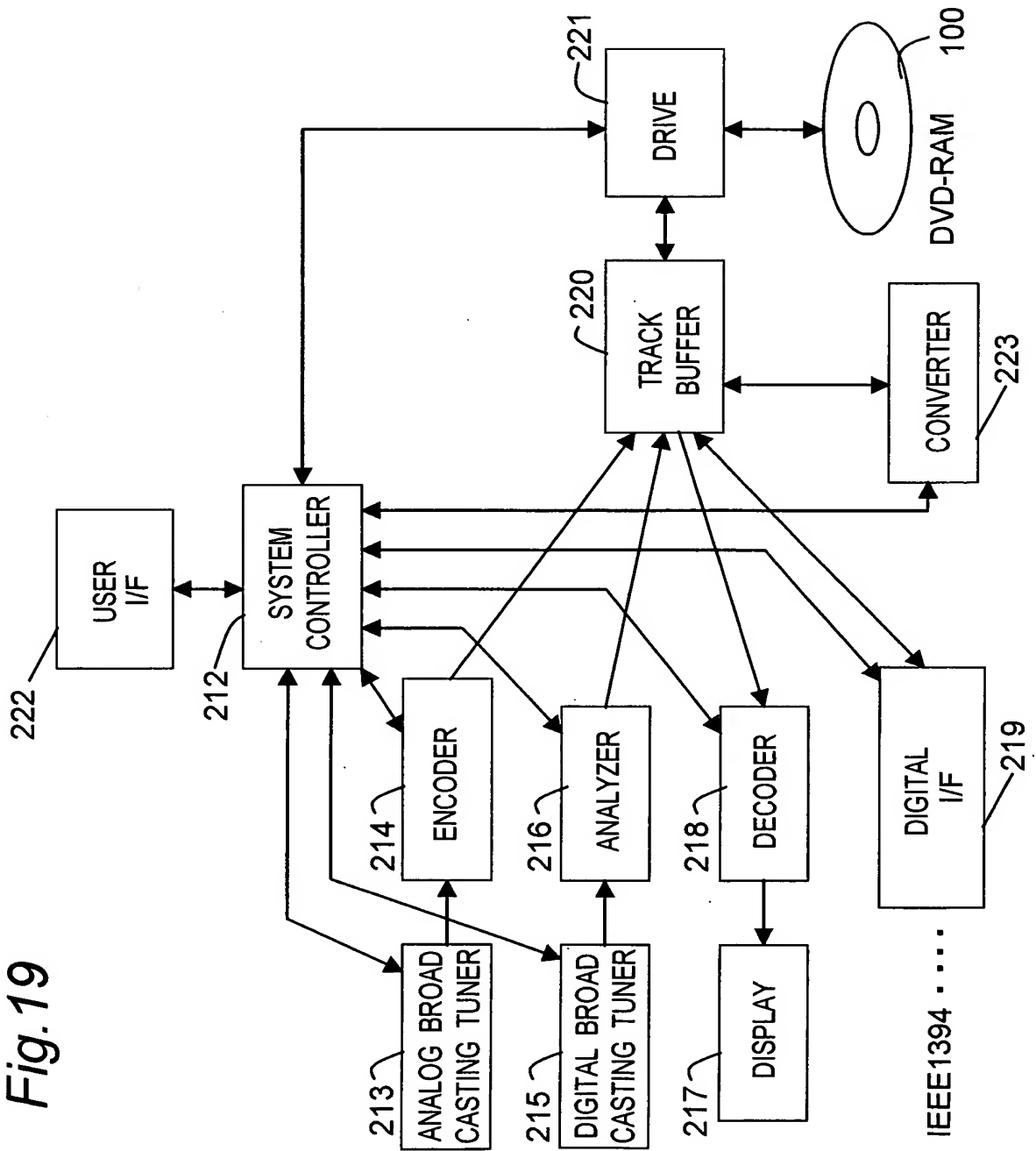
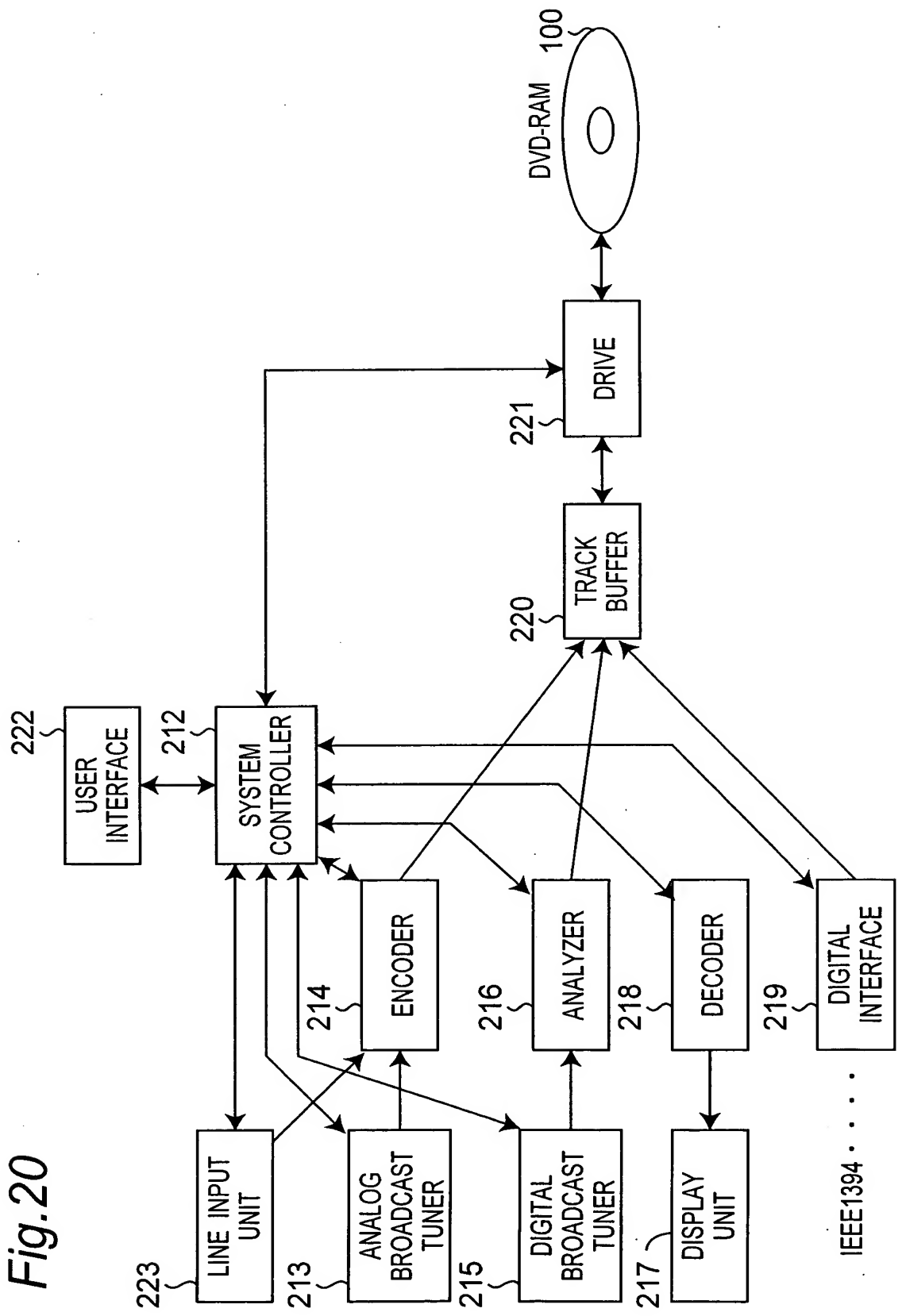


Fig.20



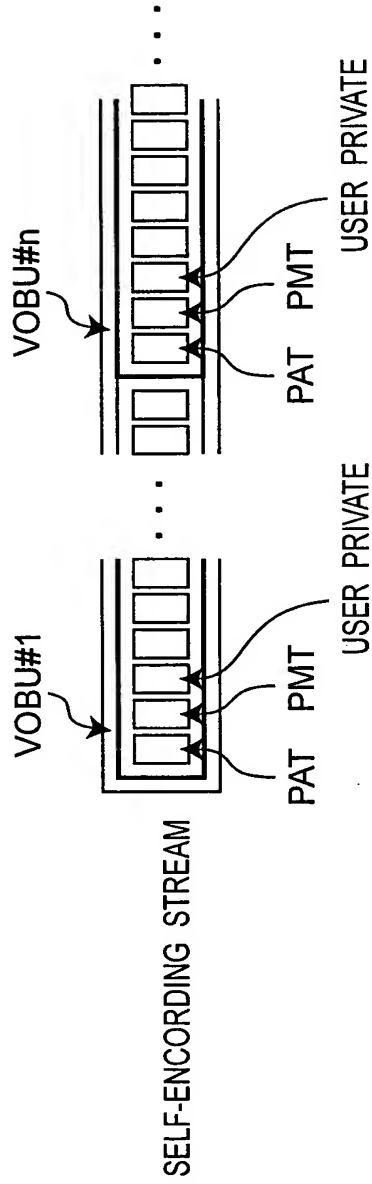


Fig. 21A

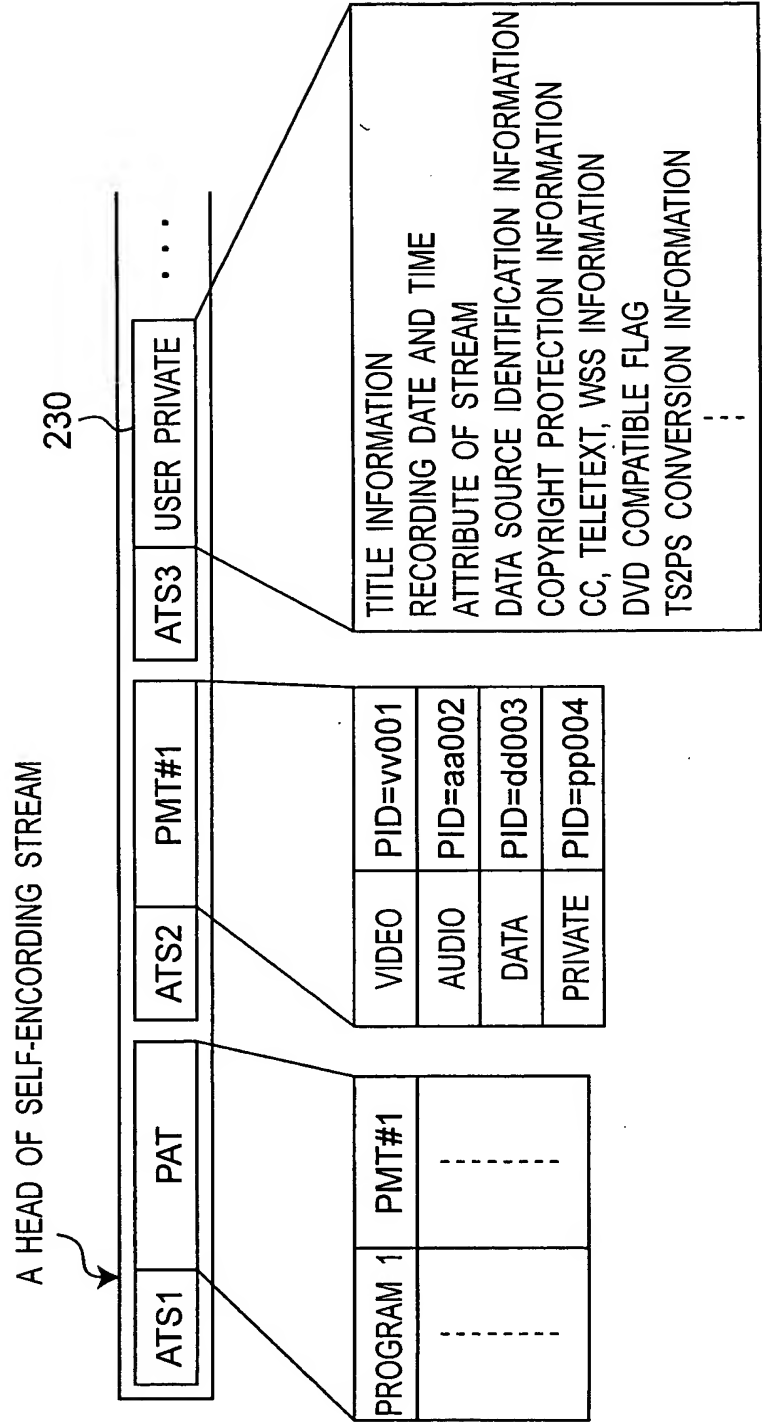


Fig. 21B

Fig. 22A

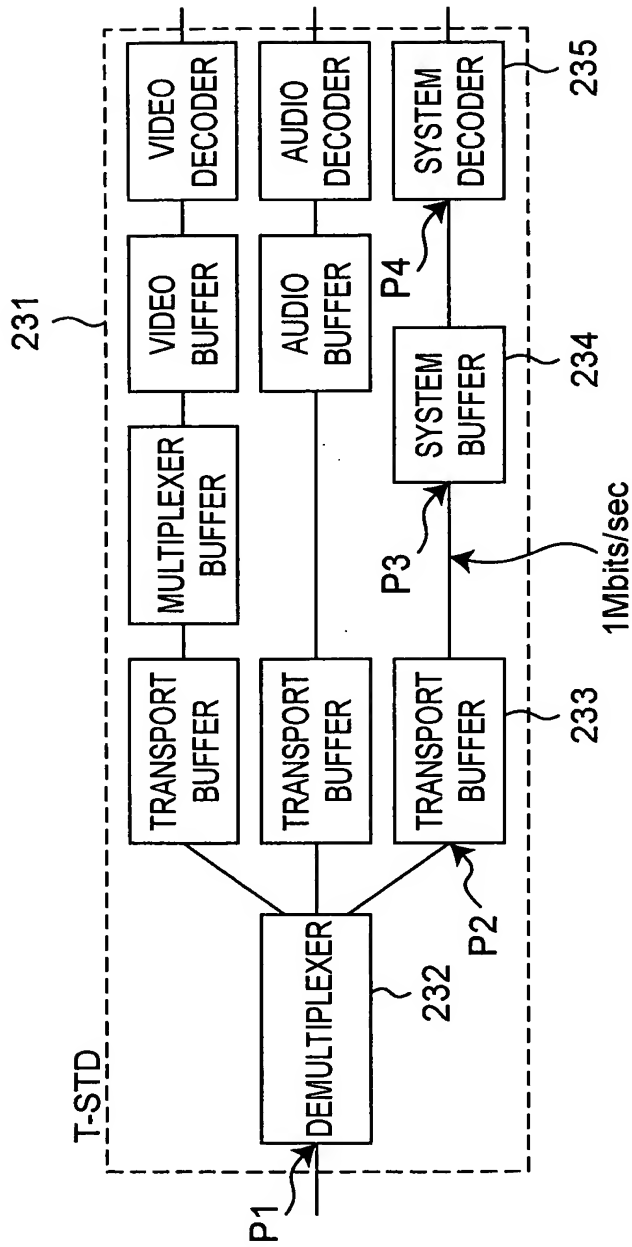


Fig. 22B

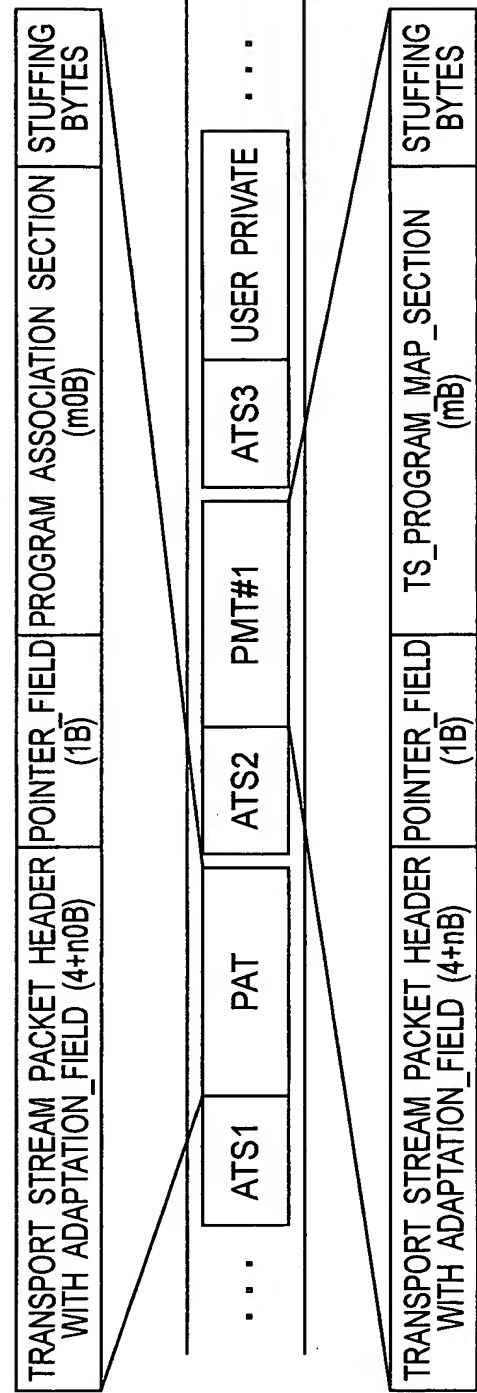


Fig. 23

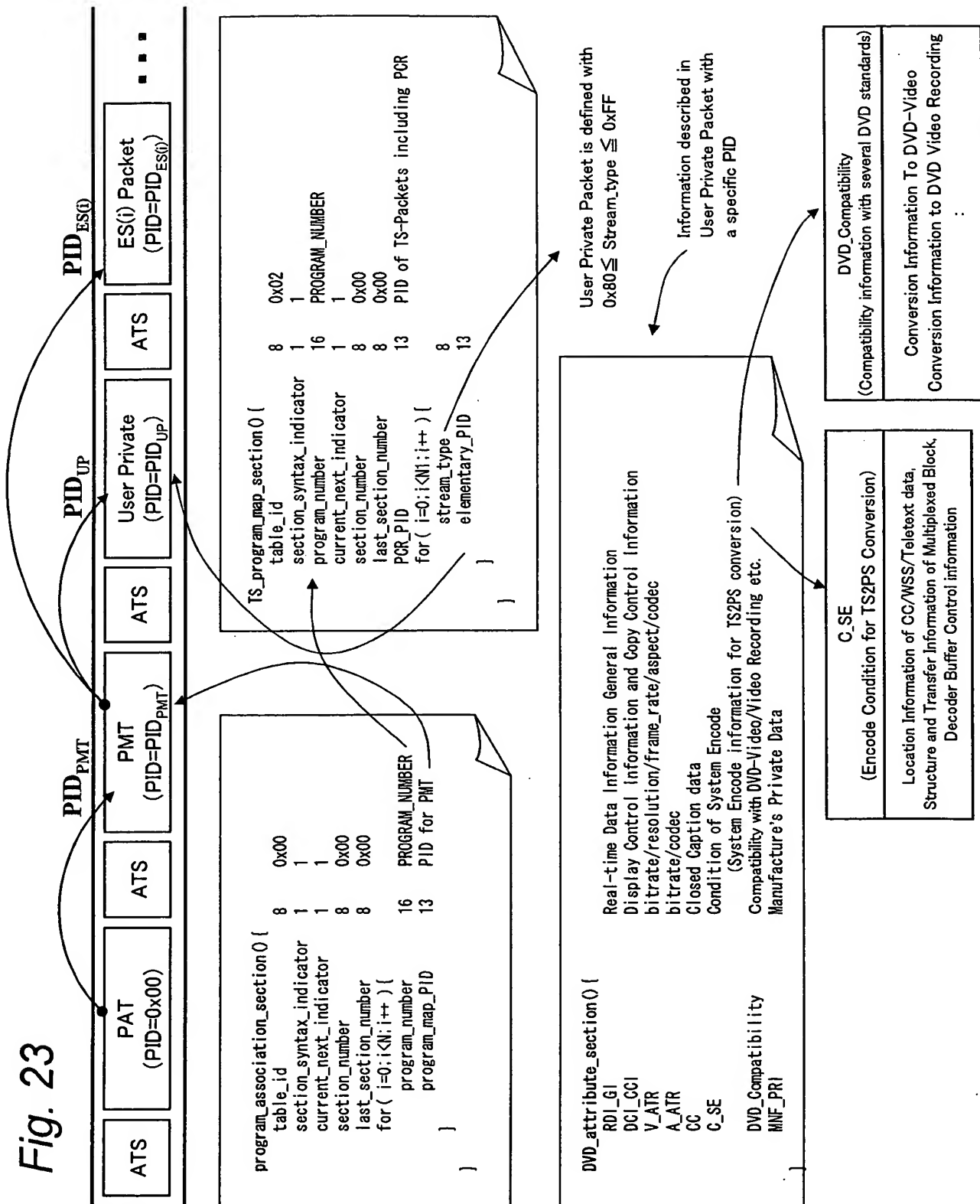


Fig. 24

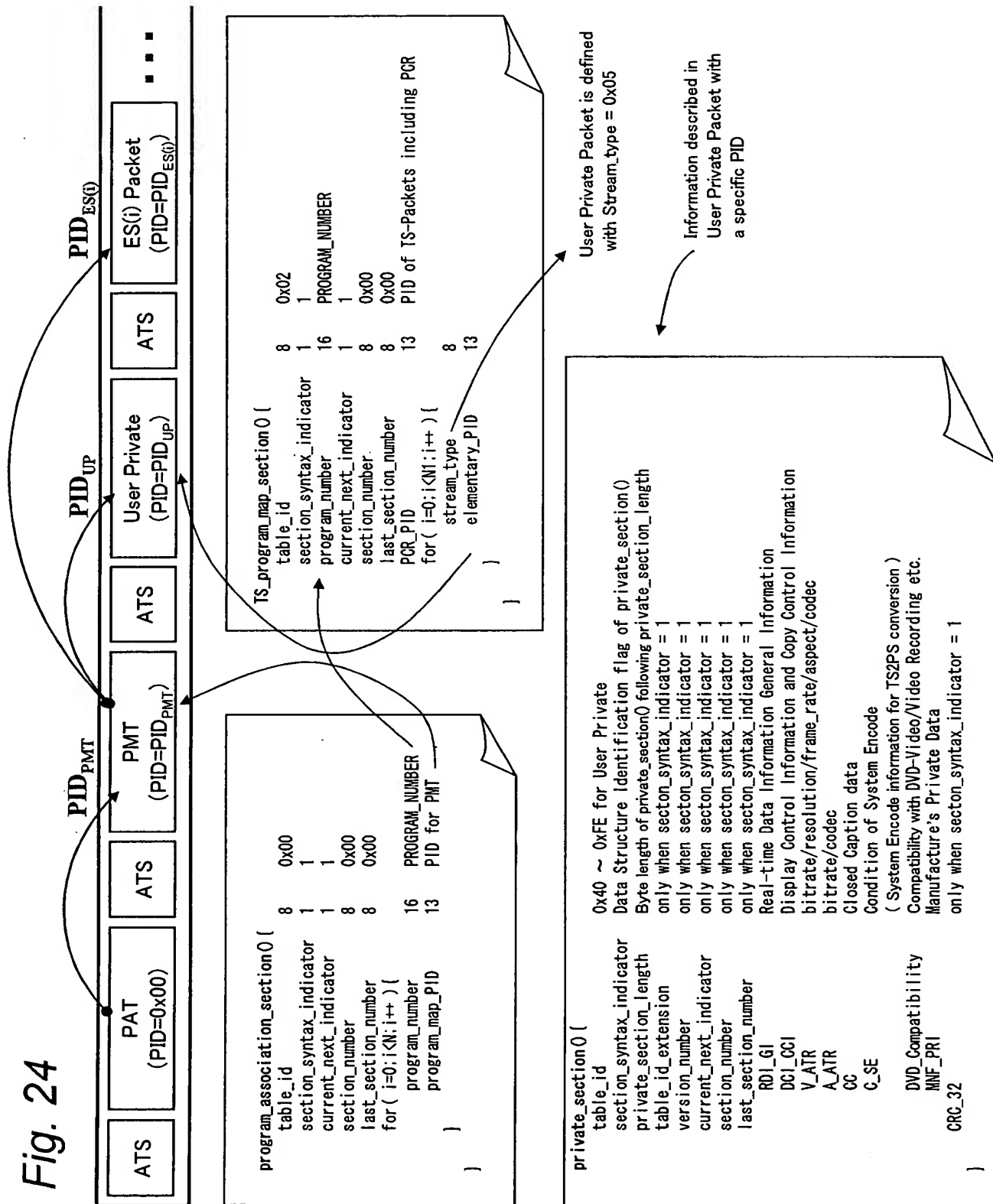


Fig. 25

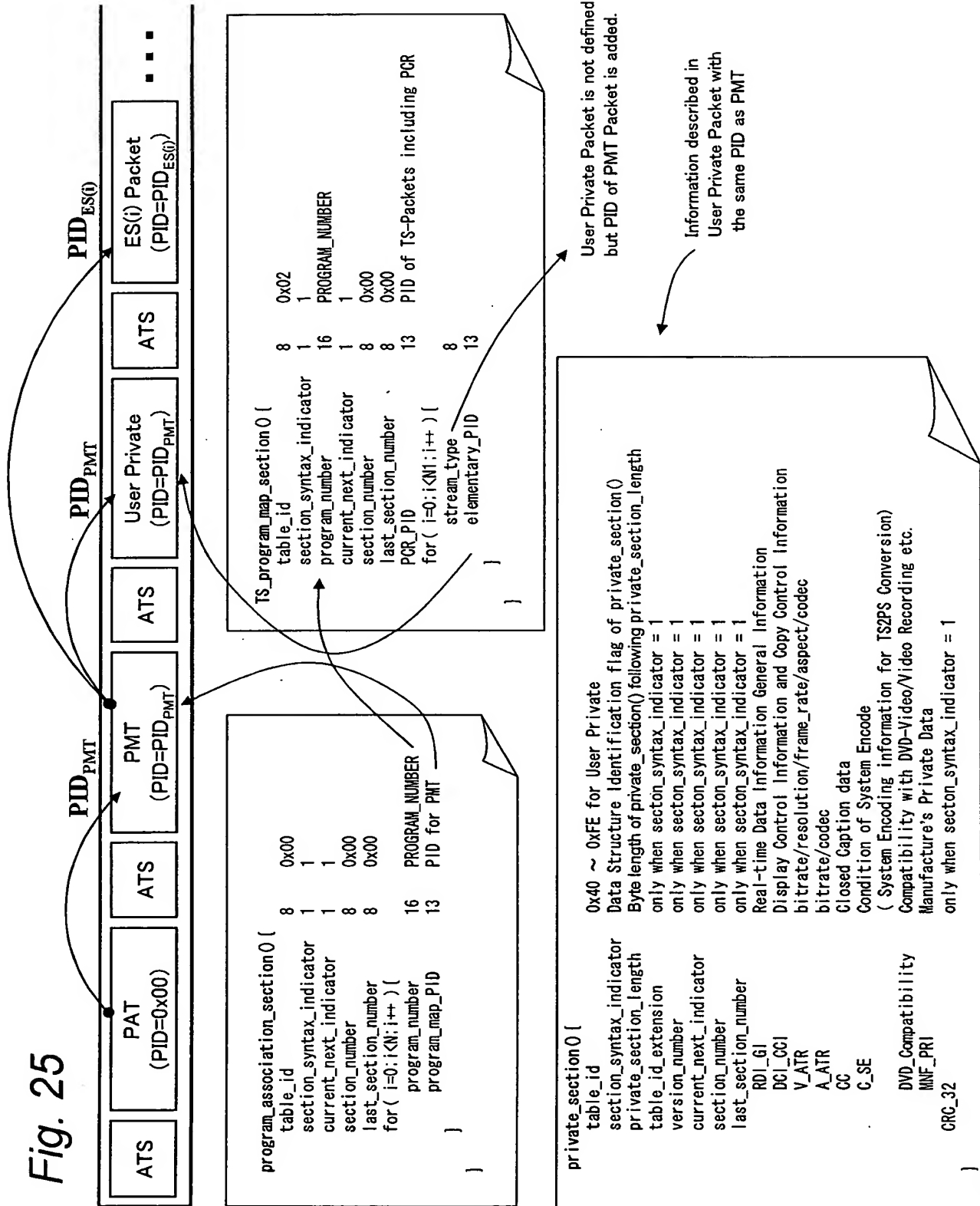
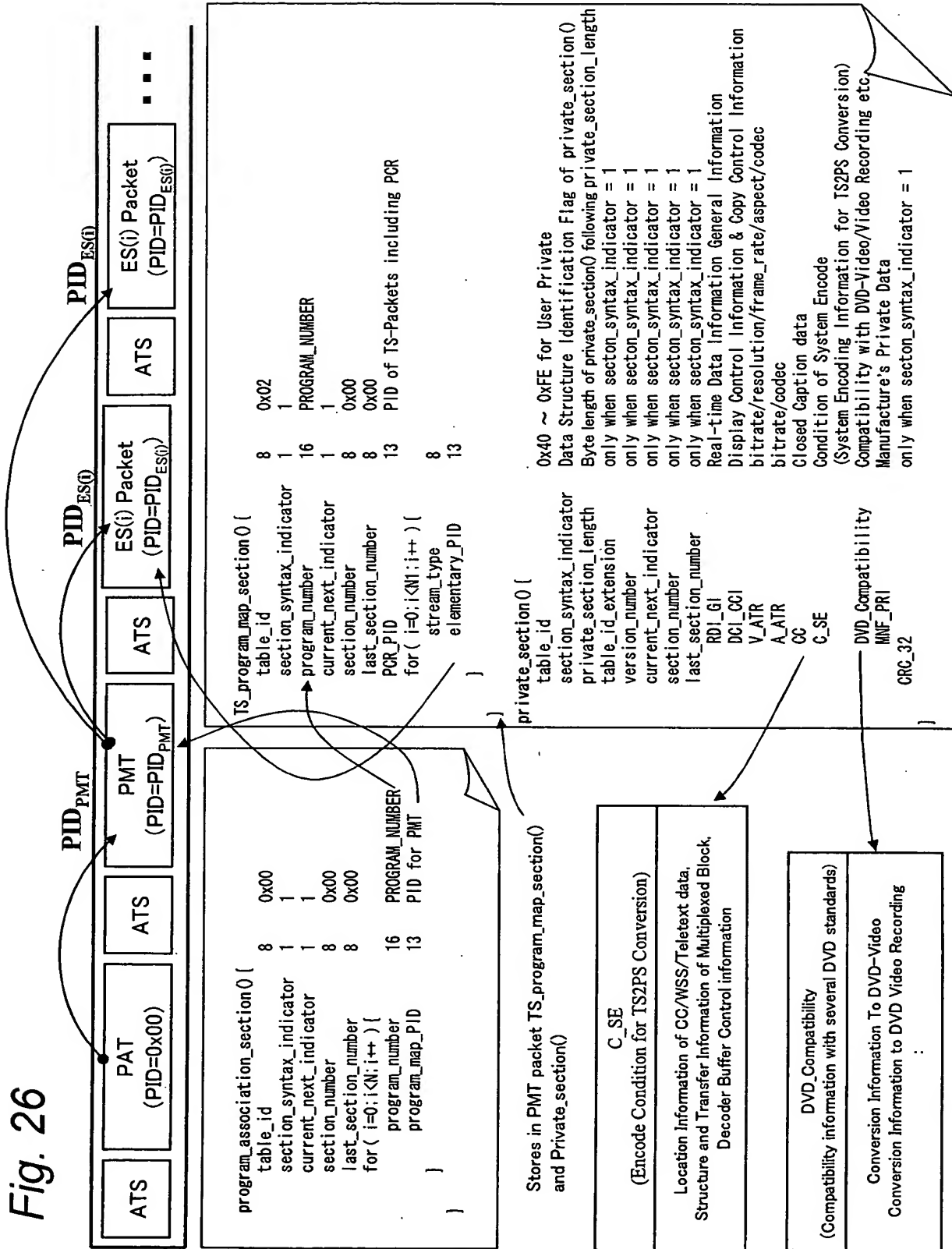
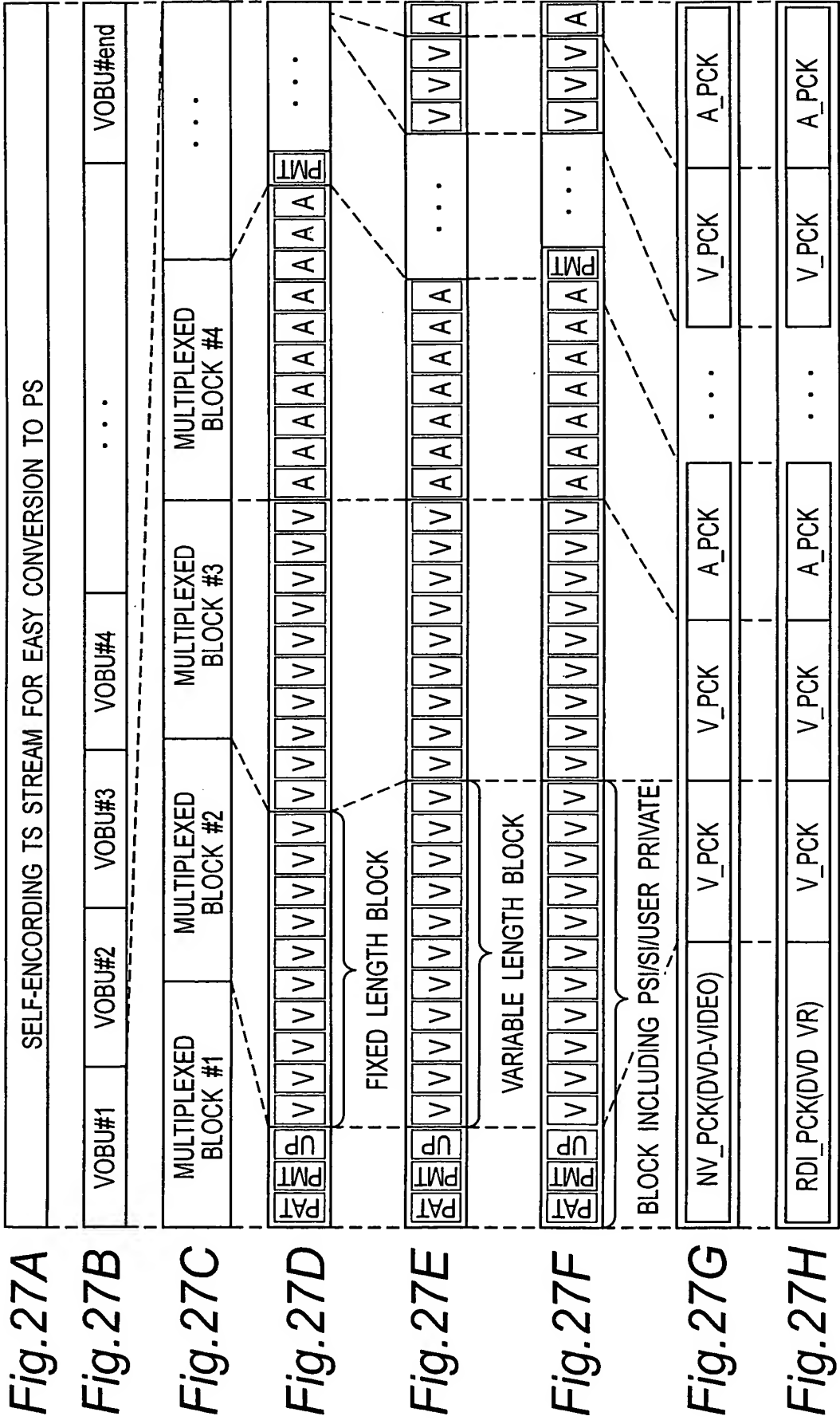


Fig. 26





(*) CAPSULE HEADER AND ATS ARE OMITTED.
(*) EACH PACK IN FIGS. 27G AND 27H ARE STUFFED/PADDED ACCORDING TO BYTE LENGTH OF ELEMENTARY OR VOB ALIGNMENT.

Fig. 28A

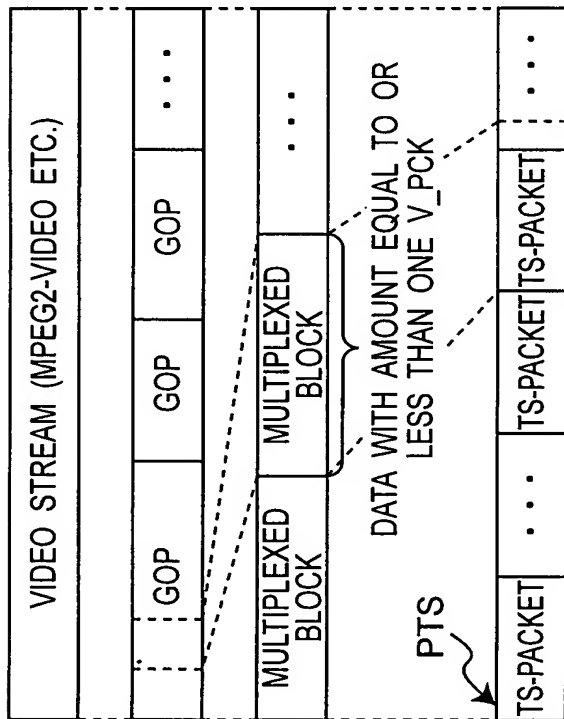


Fig. 28B

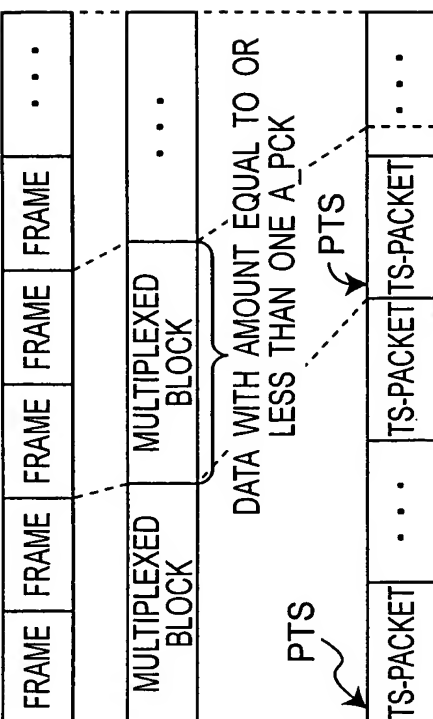


Fig. 28C

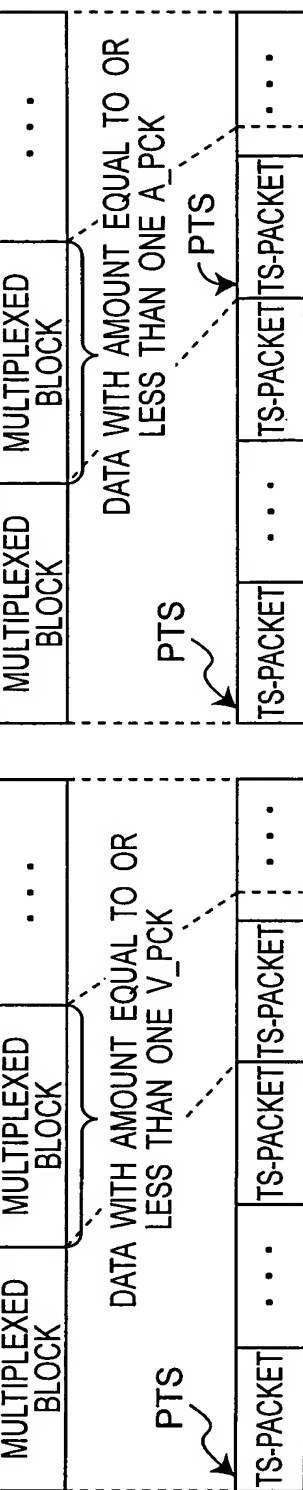


Fig. 28D

Fig. 28E

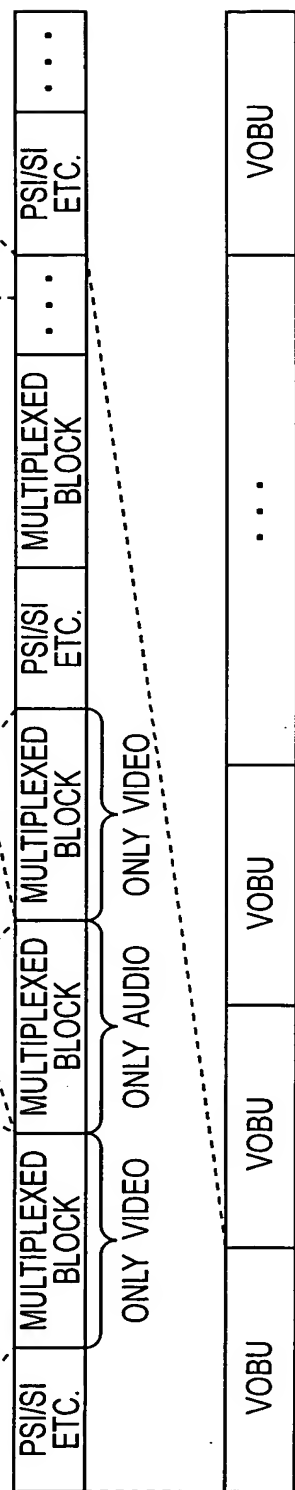


Fig. 28F

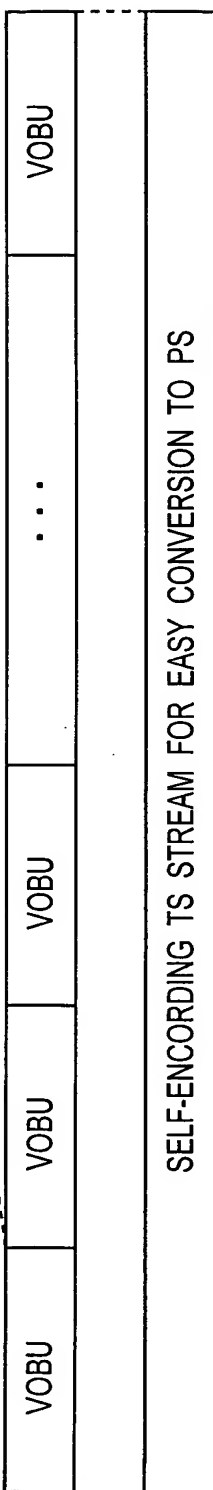
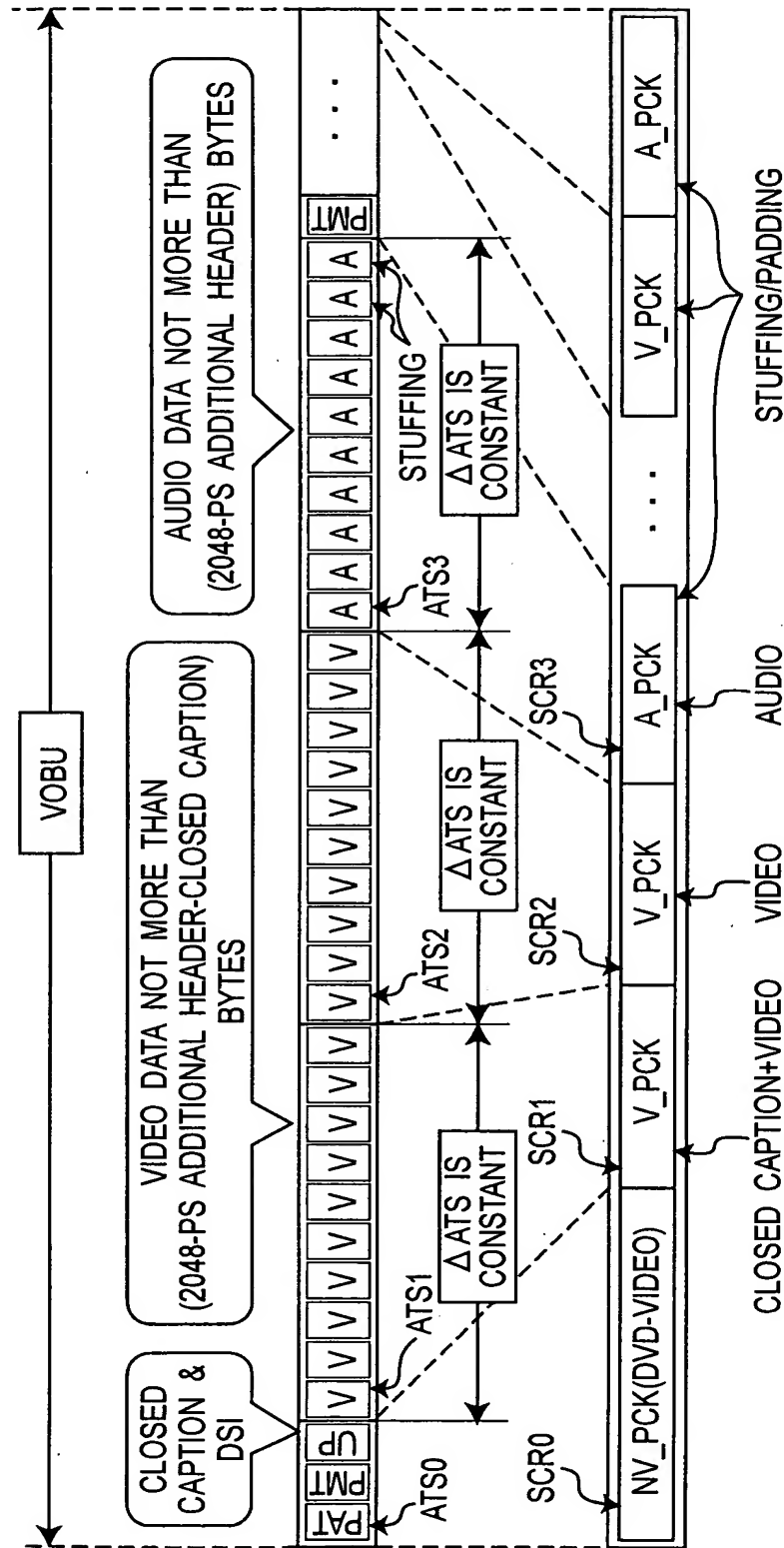


Fig. 28G

Fig. 29



ATSi (+CONSTANT)=SCRi

ATSi (+NUMBER OF PACKETS IN THE MULTIPLEXED BLOCK)*ΔATS≤ATSi+1

ATSi (+NUMBER OF PACKETS IN THE MULTIPLEXED BLOCK)*ΔATS<ATSi+1

SCRi+1-SCRi≥8*2048*27*/10.08

FOR ALL i

FOR FIXED LENGTH MULTIPLEXED BLOCK

FOR VARIABLE LENGTH MULTIPLEXED BLOCK

MPEG-PS MUX_RATE=10.08 Mbps

Fig. 30

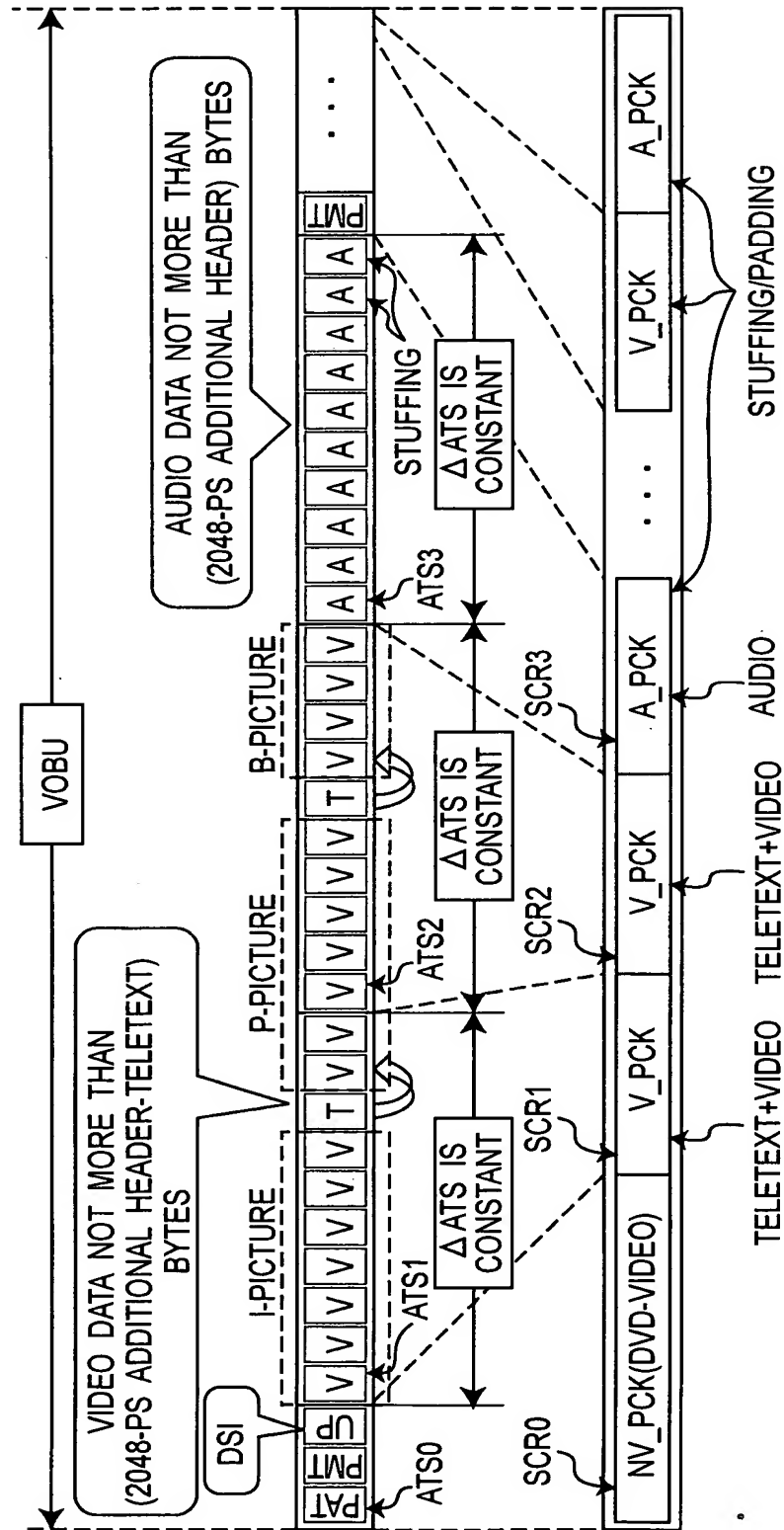


Fig. 31

```

User_Private_transport_packet() {
    sync_byte          8b      0x47
    transport_error_indicator 1b
    payload_unit_start_indicator 1b
    transport_priority 1b
    PID 13b
    transport_scrambling_control 2b
    adaptation_field_control 2b
    continuity_counter 4b
    pointer_field 8b
    private_section() {
        table_id 8b
        section_syntax_indicator 1b
        private_indicator 1b
        reserved 2b
        private_section_length 12b
    }
}

ROI_GI (Real-time Data Information General Information)
    VOB_U_S_PTM 6b      presentation starting time of this VOB_U
    Line21_data_length 1b      length of the Line21 data for this VOB_U
                                // same as DVD VR spec.
                                // max. 120 = 60fields * 2B

DCI_CCI (Display Control Information and Copy Control Information)
    DCI_CCI_SS 1b      Status of DCI and CCI
    DCI 1b      Display Control Information
    CCI 1b      Copy Control Information
                                // same as DVD VR spec.
                                // same as DVD VR spec.
                                // same as DVD VR spec.

ES_ATRI (Elementary Stream Attribute Information)
    V_ATR 2b      video_format(3b)/codec(3b)/resolution(3b)/bitrate(3b)/reserved(4b)
    A_ATR 4b      codec(3b)/bitrate(5b)/channel(4b)/quantization(2b)// max. 2 audio stream

if ( Line21_data_length != 0 ) {
    Line21_switch ceil( (Line21_data_length/8) )
    Line21_data (Line21_data_length) 8
    MNF_ID 16b
    MNF_PRI 13-145B
}
else {
    MNF_ID 16b
    MNF_PRI 148B
}
}
}

```

(*) Ceil() means round-up

Fig. 32

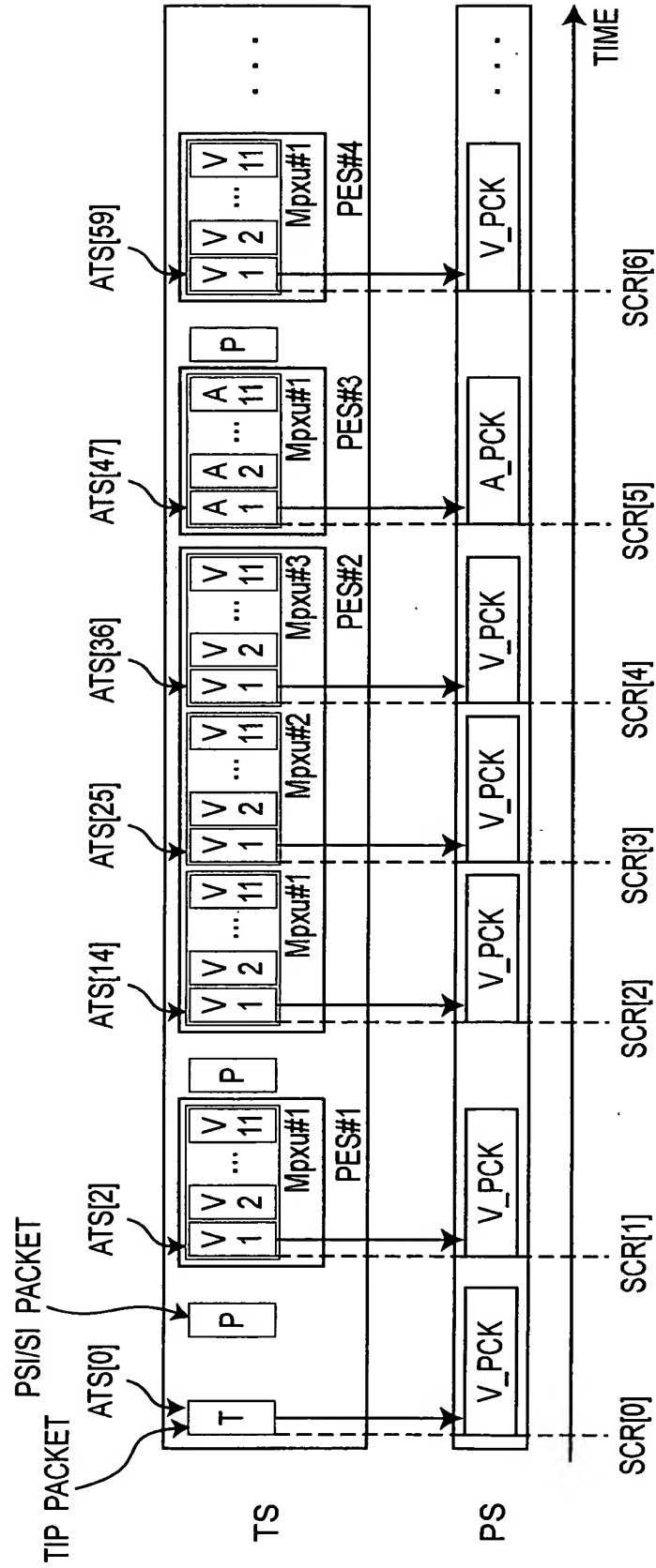


Fig. 33

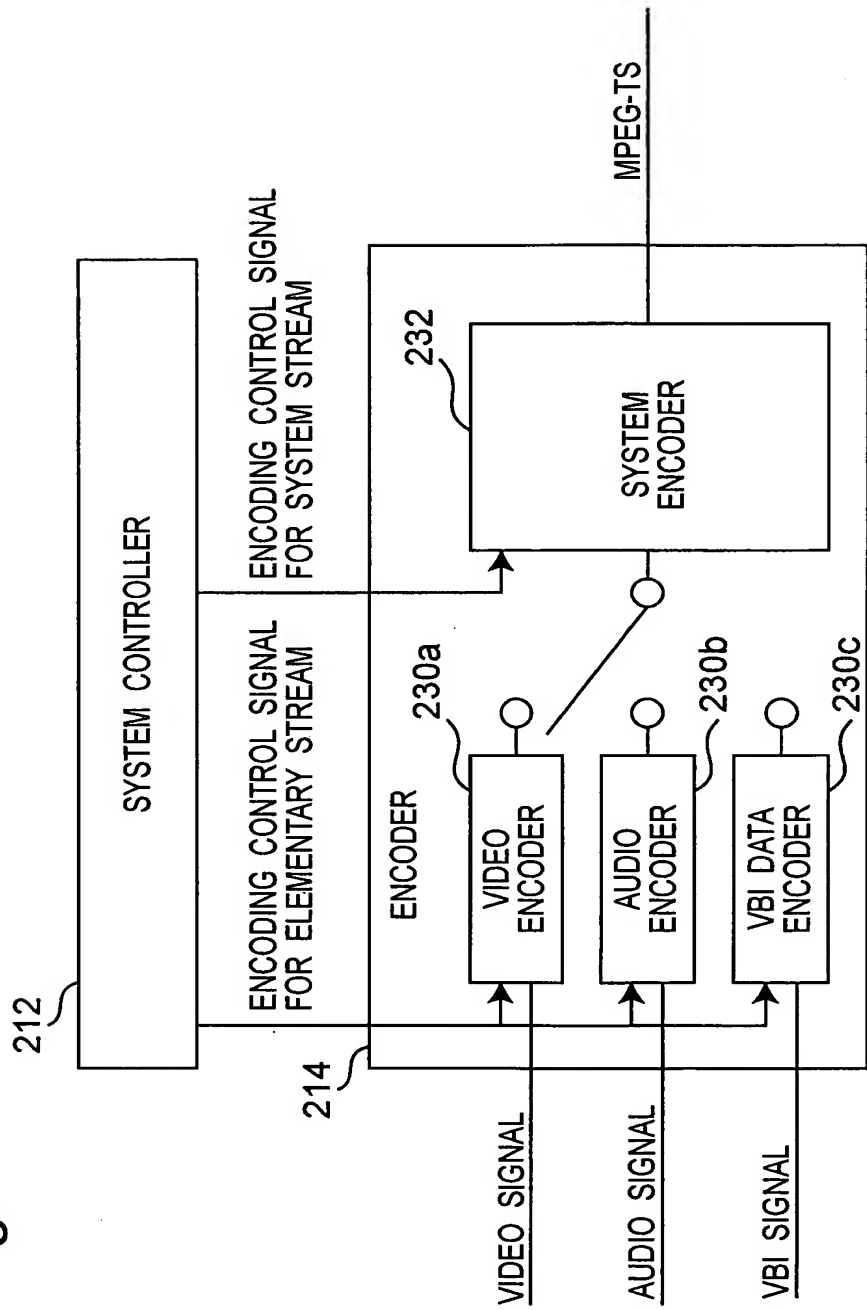


Fig.34

CONVERSION FROM SELF-ENCODING MPEG-TS TO DVD-Video / DVD VR FORMAT		
<div> <div></div> <div> <p>WHEN ENCODED TO ELEMENTARY STREAM COMPATIBLE WITH DVD-Video</p> </div> </div>	<div> <div></div> <div> <p>MPEG-TS ENCODED WITH NORMAL SYSTEM ENCODE (SESF)</p> </div> </div>	<div> <div></div> <div> <p>MPEG-TS ENCODED WITH SYSTEM ENCODE CAPABLE OF EASY CONVERSION TO MPEG-TS (CONSTRAINED SESF)</p> </div> </div>
	<div> <div></div> <div> <p>(CONVERSION TO DVD-Video) ELEMENTARY CAN BE USED AS IT IS. IN RE-ENCODING TO MPEG-PS, ELEMENTARY STREAM HAS TO BE ANALYZED. THE PROCESS IS COMPLICATED.</p> </div> </div>	<div> <div></div> <div> <p>(CONVERSION TO DVD-Video) ELEMENTARY CAN BE USED AS IT IS. IN RE-ENCODING TO MPEG-PS, ELEMENTARY STREAM DO NOT HAVE TO BE ANALYZED, AND BUFFER MANAGEMENT IS ALSO NOT NEEDED.</p> </div> </div>
<div> <div></div> <div> <p>WHEN ENCODED TO ELEMENTARY STREAM COMPATIBLE WITH DVD VR</p> </div> </div>	<div> <div></div> <div> <p>(CONVERSION TO DVD VR) ELEMENTARY CAN BE USED AS IT IS. IN RE-ENCODING TO MPEG-PS, ELEMENTARY STREAM HAS TO BE ANALYZED. THE PROCESS IS COMPLICATED.</p> </div> </div>	<div> <div></div> <div> <p>(CONVERSION TO DVD VR) ELEMENTARY CAN BE USED AS IT IS. IN RE-ENCODING TO MPEG-PS, ELEMENTARY STREAM DO NOT HAVE TO BE ANALYZED, AND BUFFER MANAGEMENT IS ALSO NOT NEEDED.</p> </div> </div>

Fig. 35

Tip PACKET		
Syntax	No. of bits	Mnemonic
transport_packet(){		
sync_byte	8	bslbf
transport_error_indicator	1	bslbf
payload_unit_start_indicator	1	bslbf
transport_priority	1	bslbf
PID	13	uimsbf
transport_scrambling_control	2	bslbf
adaptation_filed_control	2	bslbf
continuity_counter	4	uimsbf
adaptation_field()		
Tip_Data(){		
Data_ID()	4*8	
display_and_copy_info()	8*8	
encode_info()	141*8	
MakersPrivateData()	41*8	
}		
}		

Fig. 36

adaptation_field()			
Syntax		No. of bits	Mnemonic
adaptation_field(){			
adaptation_field_length		8	uimsbf
discontinuity_indicator		1	bslbf
random_access_indicator		1	bslbf
elementary_stream_priority_indicator		1	bslbf
PCR_flag		1	bslbf
OPCR_flag		1	bslbf
splicing_point_flag		1	bslbf
transport_private_data_flag		1	bslbf
adaptation_field_extension_flag		1	bslbf
program_clock_reference_base		33	uimsbf
reserved		6	bslbf
program_clock_reference_extension		9	uimsbf
}			

Fig.37

Data_ID()			
Syntax		No. of bits	Mnemonic
Data_ID(){			
Data_Identifier		24	uimbsbf
reserved		8	bslbf
}			

Fig.38

display_and_copy_info()			
Syntax	No. of bits	Value	
display_and_copy_info(){			
reserved	40	bslbf	
display_control_info_status	2	bslbf	
reserved	2	bslbf	
copy_control_info_status	3	bslbf	
reserved	1	bslbf	
Aspect ratio	4	bslbf	
Subtitling mode	2	bslbf	
reserved	1	bslbf	
Film camera mode	1	bslbf	
CGMS	2	bslbf	
APSTB	2	bslbf	
Source	1	bslbf	
reserved	3	bslbf	
}			

Fig. 39

encode_info()			
Syntax		No. of bits	Value
encode_info(){			
video_resolution		4	bslf
reserved		2	bslf
encode_condition		2	bslf
reserved		8	bslf
FVFPST		48	bslf
reserved		8	bslf
PES-info()		976(=8 * 122)	
}			

Fig.40

PES_INFO(
SYNTA	NO. OF BITS	VALU
PES_info(){		
for(j=0;j<136;j++){		
PES_existence_flag	1	bslbf
PES_payload_identifier	1	bslbf
if(PES_payload_identifier==0b){		
picture_coding_type	2	bslbf
}		
if(PES_payload_identifier==1b){		
stream_identifier	1	bslbf
sync_presentation_flag	1	bslbf
}		
}		
while(!bytealigned)		
zero_bit	1	bslbf
}		

Fig. 41

MakersPrivateData()			
Syntax	No. of bits	Value	
MakersPrivateData(){			
maker_ID	16	uimbsf	
maker_private_data	312(=39*8)	bslbf	
}			

Fig. 42A

PID assignments	
PID value	meaning
0x1031	The PID of the transport packets which carry the Tip data stream

Fig. 42B

stream_type assignments	
stream_type value	Description
0xC3	Tip data stream

Fig.43

PES PACKET HEADER OF PES PACKET IN CONSTRAINED SESEF	
fields	Permitted value in Constrained SESEF
PES_packet_length	CONFORM TO ISO/IEC13818-1
PES_priority	0b
data_alignment_indicator	0b
copyright	0b
PTS_DTS_flags	00b,10b or 11b
ESCR_flag	0b
ES_rate_flag	0b
DSM_trick_mode_flag	0b
additional_copy_info_flag	0b
PES_CRC_flag	0b
PES_extension_flag	Refer to Fig.31
PES_header_data_length	Refer to Fig.31
PES_private_data_flag	0b, if exists
pack_header_field_flag	0b, if exists
program_packet_sequence_counter_flag	0b, if exists
P-STD_buffer_flag	0b, if exists
PES_extension_flag_2	0b, if exists
stuffing_byte	STUFFED FULLY WITH '0xFF'

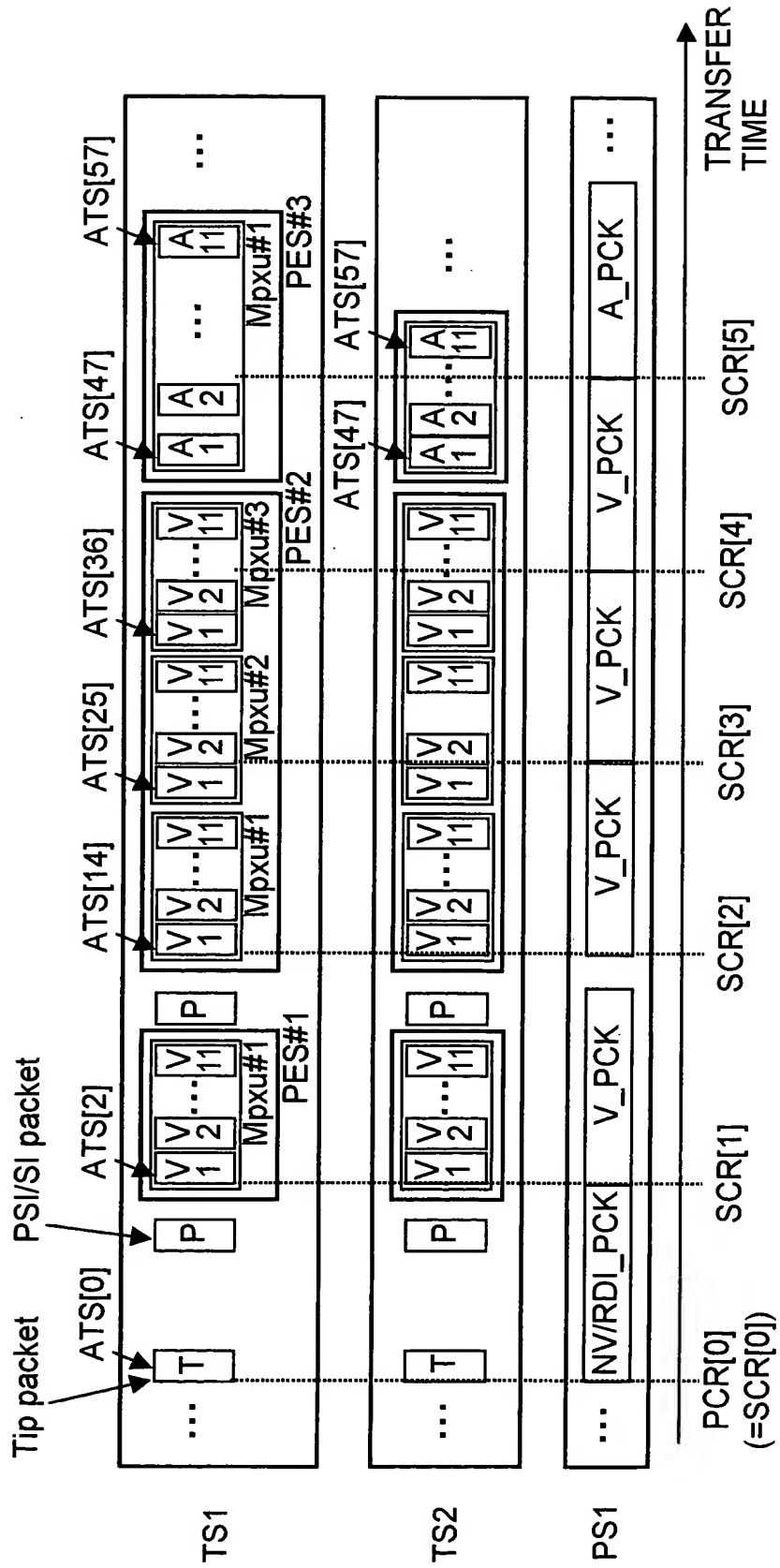
10/552372

Fig.44

CONSTRAINT FOR PES_extension_flag AND PES_header_data_length					
PES packet		encode_condition=01b		encode_condition=11b	
STORED DATA	MULTIPLIED POSITION	VALUE OF PES_extension_flag AND PES_header_data_length	BYTE LENGTH OF stuffing_byte	VALUE OF PES_extension_flag AND PES_header_data_length	BYTE LENGTH OF stuffing_byte
MPEG2-Video, MPEG1-Audio	FIRST FOLLOWING TIP PACKET	PES_extension_flag=1b PES_header_data_length=VPD+3	2	PES_extension_flag=0b PES_header_data_length=VPD	0
	OTHERS	PES_extension_flag=0b PES_header_data_length=VPD	0		
AC-3 audio	FIRST FOLLOWING TIP PACKET	PES_extension_flag=1b PES_header_data_length=VPD+7	6	PES_extension_flag=0b PES_header_data_length=VPD+4	4
	OTHERS	PES_extension_flag=0b PES_header_data_length=VPD+4	4		

$$VPD = \begin{cases} 0, & (\text{WHEN PTS_DTS_flags}=00b) \\ 5, & (\text{WHEN PTS_DTS_flags}=01b) \\ 10, & (\text{WHEN PTS_DTS_flags}=11b) \end{cases}$$

Fig. 45



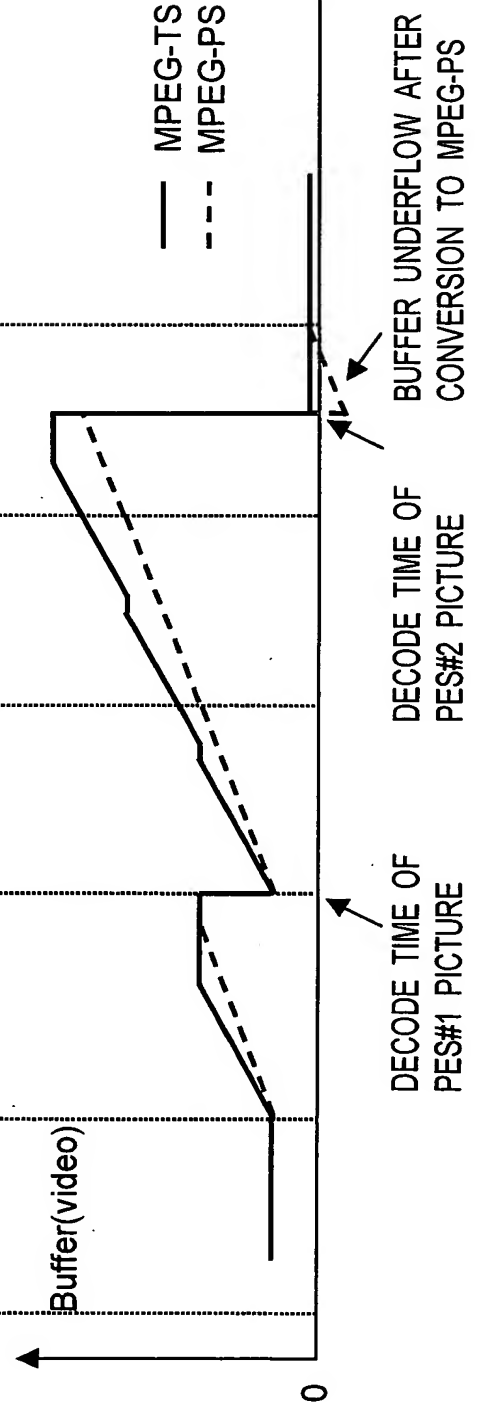
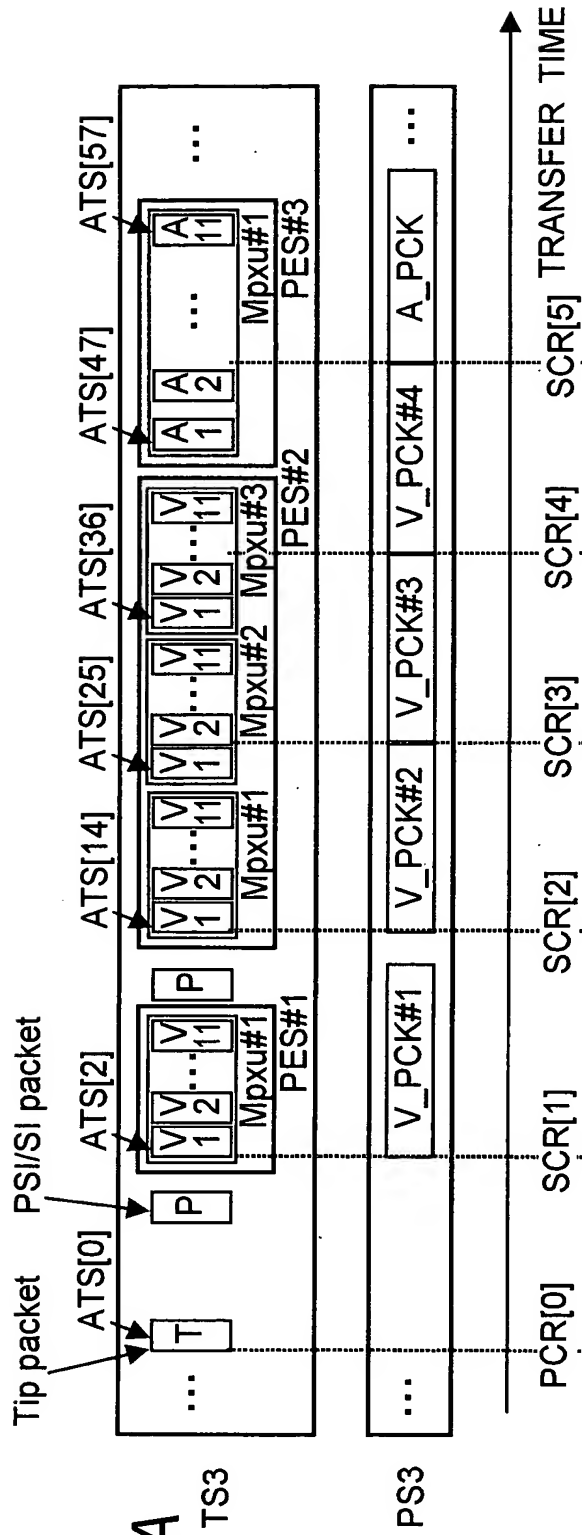


Fig. 47

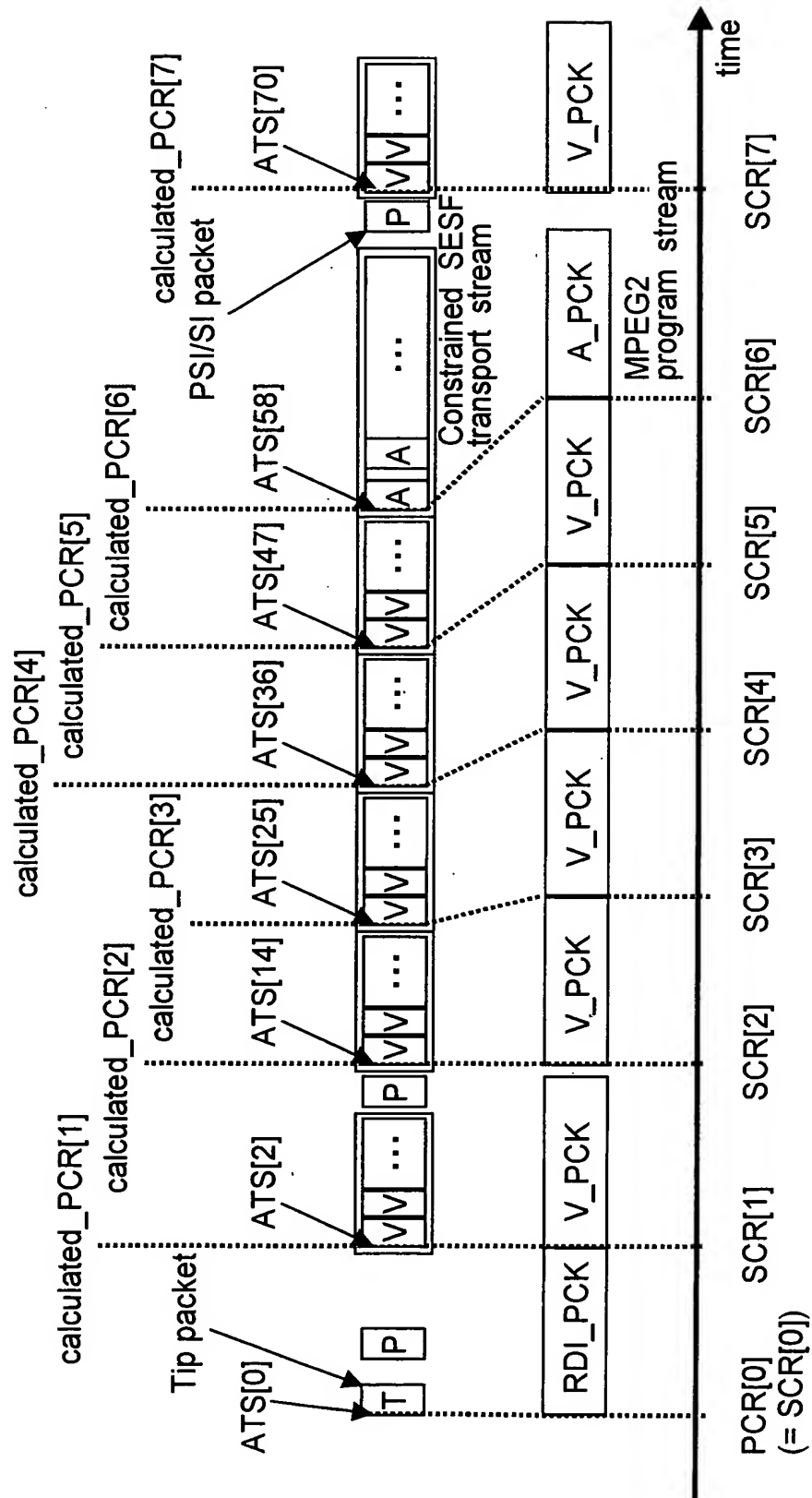


Fig. 48

ATTRIBUTE OF ELEMENTARY STREAM FOR encode_condition=11b			
	NTSC	PAL	
Video	Source picture resolution	720x480,704x480, 352x480,352x240 (*Note1)	720x576,704x576, 352x576,352x288 (*Note1)
	Aspect ratio	Display aspect ratio (*Note1) of 4:3 or 16:9	
	Bit rate	9.8Mbps (MAXIMUM)	
	GOP length	36 or less display fields	30 or less display field
	Sequence_end_code	once in end of VOB	
	Closed Captioning data	GOP layer user_data (same format as DVD VR) Picture layer (same format as ATSC)	N/A
	Teletext	N/A	Teletext transport packet (same format as DVB)
Audio	WSS	(Tip transport packet)	Tip transport packet Picture layer user_data (SESF original format)
	Quantization	16bits	
	Sampling frequency	48KHz	
	Bit rate	64-384Kbps for MPEG-1 Audio, 64-448Kbps for AC-3 (*Note1)	
	Number of audio channels	1-2ch for MPEG-1 Audio, 1-5.1ch for AC-3 (*Note1)	

Fig.49

ATTRIBUTE OF ELEMENTARY STREAM FOR encode_condition=01b			
		NTSC	PAL
Video	Source picture resolution	720x480,704x480, 544x480,480x480, 352x480,352x240 (*Note2)	720x576,704x576, 544x576,480x576, 352x576,352x288 (*Note2)
	Aspect ratio	Display aspect ratio (*Note2) of 4:3 or 16:9	
	Bit rate	9.8Mbps (MAXIMUM)	
	GOP length	36 or less display fields	30 or less display fields
	Sequence_end_code	at least 90 display fields for sequence_end_code (*Note3)	at least 75 display fields for sequence_end_code (*Note3)
	Closed Captioning data	GOP layer user_data (same format as DVD VR) Picture layer (same format as ATSC)	N/A
	Teletext	N/A	Teletext transport packet (same format as DVB)
Audio	WSS	(Tip transport packet)	Tip transport packet Picture layer user_data (SESF original format)
	Quantization	16bits	
	Sampling frequency	48KHz	
	Bit rate	64-384Kbps for MPEG-1 Audio, 64-448Kbps for AC-3 (*Note1)	
	Number of audio channels	1-2ch and dual mono for MPEG-1 Audio, 1-5.1ch and dual mono for AC-3 (*Note4)	

Fig. 50

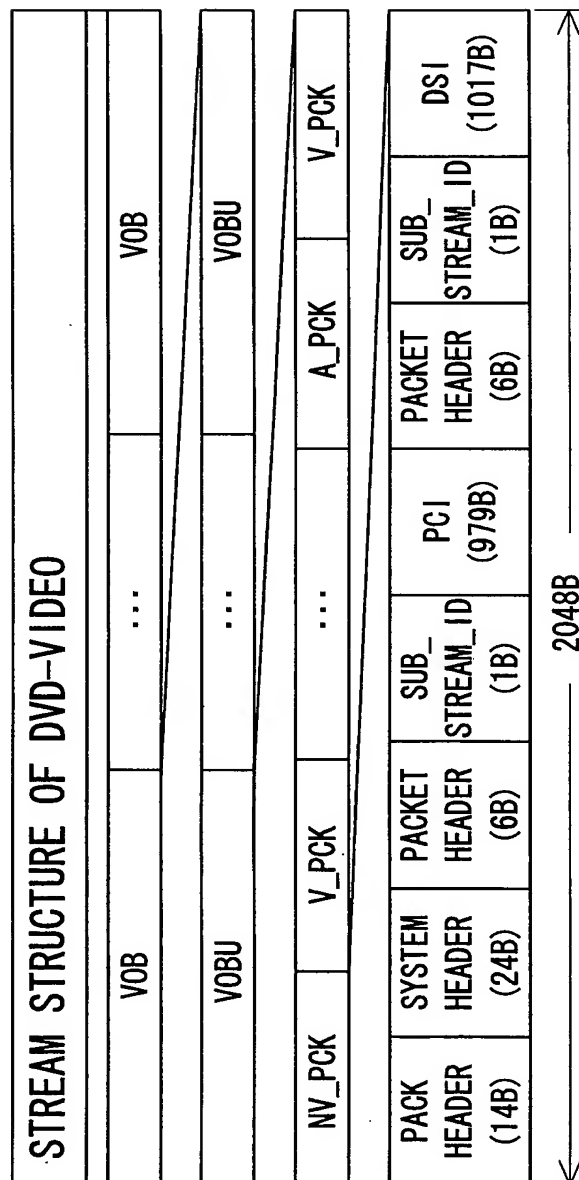


Fig. 51

PCI OF NV_PCK			
SYNTAX		NO. OF BITS	MNEMONIC
PCI () {			
PCI_GI ()		480 (=8*60)	
NSML_AGLI ()		288 (=8*36)	
HLI ()		5552 (=8*694)	
RECI ()		1512 (=8*189)	
}			

Fig. 52

PCI_GI OF NV_PCK		
SYNTAX	NO. OF BITS	MNEMONIC
PCI_GI () {		
NV_PCK_LBN	32	uimsbf
VOBU_CAT	16	bslbf
reserved	16	bslbf
VOBU_UOP_CTL	32	bslbf
VOBU_S_PTM	32	uimsbf
VOBU_E_PTM	32	uimsbf
VOBU_SE_E_PTM	32	uimsbf
C_ELTm	32	bslbf
reserved	256	bslbf
}		

Fig. 53

DSI OF NV_PCK		
SYNTAX	NO. OF BITS	MNEMONIC
DSI {		
DSI_GI ()	256 (=8*32)	
SML_PBI ()	1184 (=8*148)	
SML_AGLI ()	432 (=8*54)	
VOBU_SRI ()	1344 (=8*168)	
SYNCI ()	1152 (=8*144)	
reserved	3768 (=8*471)	bs bf
}		

Fig. 54

DSI_GI OF NV_PCK			
SYNTAX		NO. OF BITS	MNEMONIC
DSI_GI() {			
NV_PCK_SCR		32	uimsbf
NV_PCK_LBN		32	uimsbf
VOBU_EA		32	uimsbf
VOBU_1STREF_EA		32	uimsbf
VOBU_2NDREF_EA		32	uimsbf
VOBU_3RDREF_EA		32	uimsbf
VOBU_VOB_IDN		16	uimsbf
reserved		8	bslbf
VOBU_C_IDN		8	uimsbf
C_ELTM		32	bslbf
}			

Fig. 55

SML_PBI OF NV_PCK			
SYNTAX		NO. OF BITS	MNEMONIC
PML_PBI() {			
VOBU_SML_CAT		16	bslbf
ILVU_EA		32	uimsbf
NXT_ILVU_SA		32	uimsbf
NXT_ILVU_SZ		16	uimsbf
VOB_V_S_PTM		32	uimsbf
VOB_V_E_PTM		32	uimsbf
VOB_A_STP_PTM		512 (=8*64)	bslbf
VOB_A_GAP_LEN		512 (=8*64)	bslbf
}			

Fig. 56

SYNCl OF NV_PCK		
SYNTAX	NO. OF BITS	MNEMONIC
SYNCl () {		
A_SYNCA0	16	bs bf
:		
A_SYNCA7	16	bs bf
SP_SYNCA0	32	bs bf
:		
SP_SYNCA31	32	bs bf
}		

Fig. 57

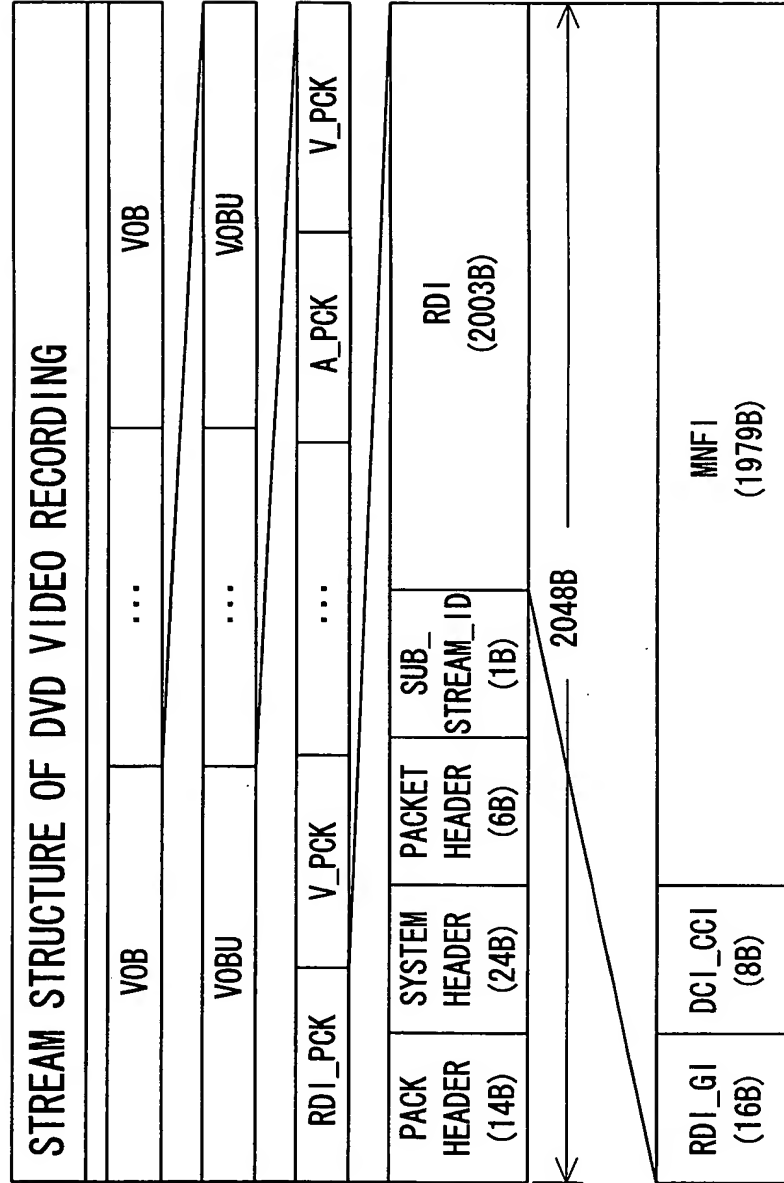


Fig. 58

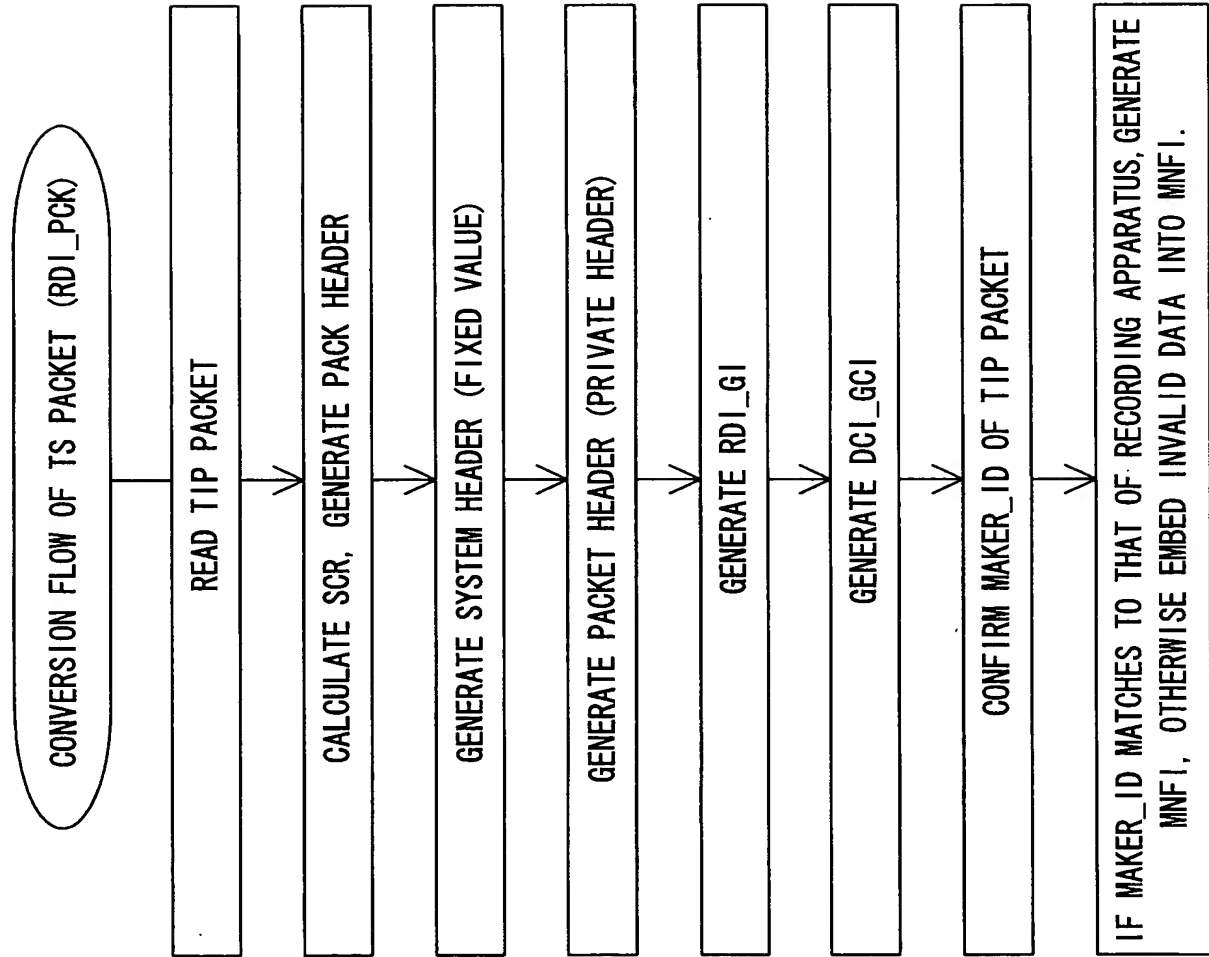


Fig. 59

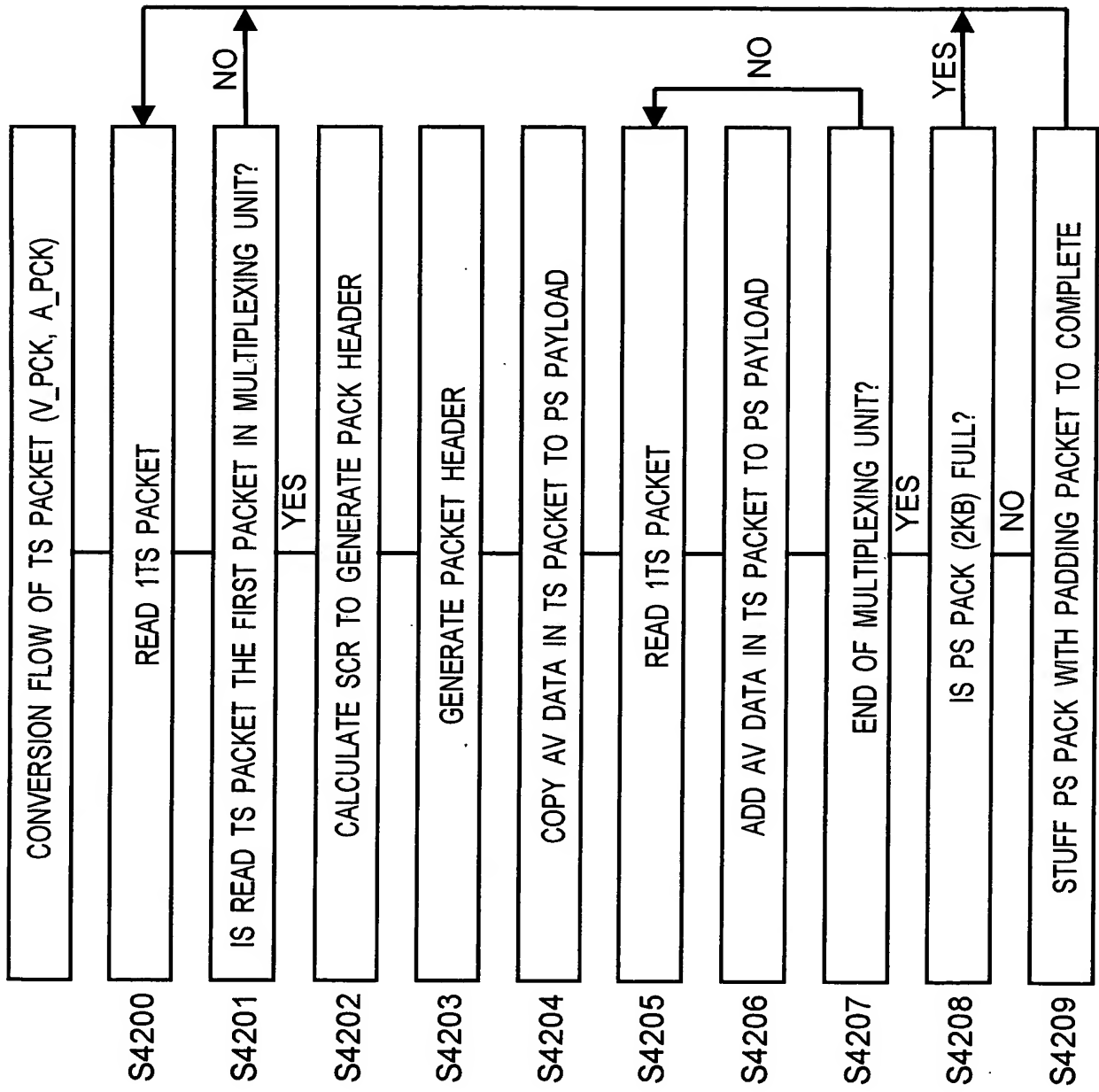


Fig. 60

PACK HEADER OF PACK IN MPEG2-PS		
Field	Number of bits	Permitted value
Pack_start_code	32	000001BAh
'01'	2	01b
SCR_base[32..30]	3	
marker_bit	1	1b
SCR_base[29..15]	15	
marker_bit	1	1b
SCR_base[14..0]	15	
marker_bit	1	1b
SCR_extension	9	
marker_bit	1	1b
program_mux_rate	22	6270h
marker_bit	1	1b
marker_bit	1	1b
reserved	5	11111b
pack_stuffing_length	3	000b

Fig. 61

SYSTEM HEADER OF DVD FORMAT		
FIELD	NUMBER OF BITS	PERMITTED VALUE
system_header_start_code	32	000001BBh
header_length	16	18
marker_bit	1	1b
rate_bound	22	6270h
marker_bit	1	1b
audio_bound	6	0 to 2
fixed_flag	1	0b
CSPS_flag	1	Provider defined
system_audio_lock_flag	1	1b
system_video_lock_flag	1	1b
marker_bit	1	1b
video_bound	5	1
Packet_rate_restriction_flag	1	Provider defined
reserved_bits	7	7Fh
stream_id	8	B9h (all video streams)
'11'	2	11b
P-STD_buf_bound_scale	1	1b
P-STD_buf_size_bound	13	232
stream_id	8	B8h (all audio streams)
'11'	2	11b
P-STD_buf_bound_scale	1	0
P-STD_buf_size_bound	13	32
stream_id	8	BDh (private_stream_1)
'11'	2	11b
P-STD_buf_bound_scale	1	1b
P-STD_buf_size_bound	13	58
stream_id	8	BFh (private_stream_2)
'11'	2	11b
P-STD_buf_bound_scale	1	1b
P-STD_buf_size_bound	13	2

Fig. 62A

PACKET HEADER OF RDI_PCK		
FIELD	NUMBER OF BITS	PERMITTED VALUE
packet_strat_code_prefix	24	000001h
stream_id	8	BFh (private_stream_2)
PES_packet_legnth	16	07D4h

Fig. 62B

PRIVATE HEADER OF RDI_PCK		
FIELD	NUMBER OF BITS	PERMITTED VALUE
sub_stream_id	8	50h

Fig. 63

PACKET HEADER OF PACKET IN MPEG2-PS		
Field	Number of bits	Permitted value
PES_priority	1	0b
data_alignment_indicator	1	0b
copyright	1	0b
ESCR_flag	1	0b
ES_rate_flag	1	0b
DSM_trick_mode_flag	1	0b
additional_copy_info_flag	1	0b
PES_CRC_flag	1	0b
PES_extension_flag	1	same value as Constrained SEF
PES_header_data_length	8	same value as Constrained SEF
PES_private_data_flag	1	0b, if exists
pack_header_field_flag	1	0b, if exists
Program_packet_sequence_ counter_flag	1	0b, if exists
P-STD_buffer_flag	1	1b, if exists
PES_extension_flag_2	1	0b, if exists
stuffing_byte	8*N	stuffed fully with '0 x FF'

Fig. 64

PRIVATE HEADER OF AC-3 IN DVD FORMAT		
FIELD	NUMBER OF BITS	PERMITTED VALUE
sub_stream_id	8	80h(primary) or 81h(secondary)
number_of_frame_headers	8	Provider defined
first_access_unit_pointer	16	0

Fig. 65A

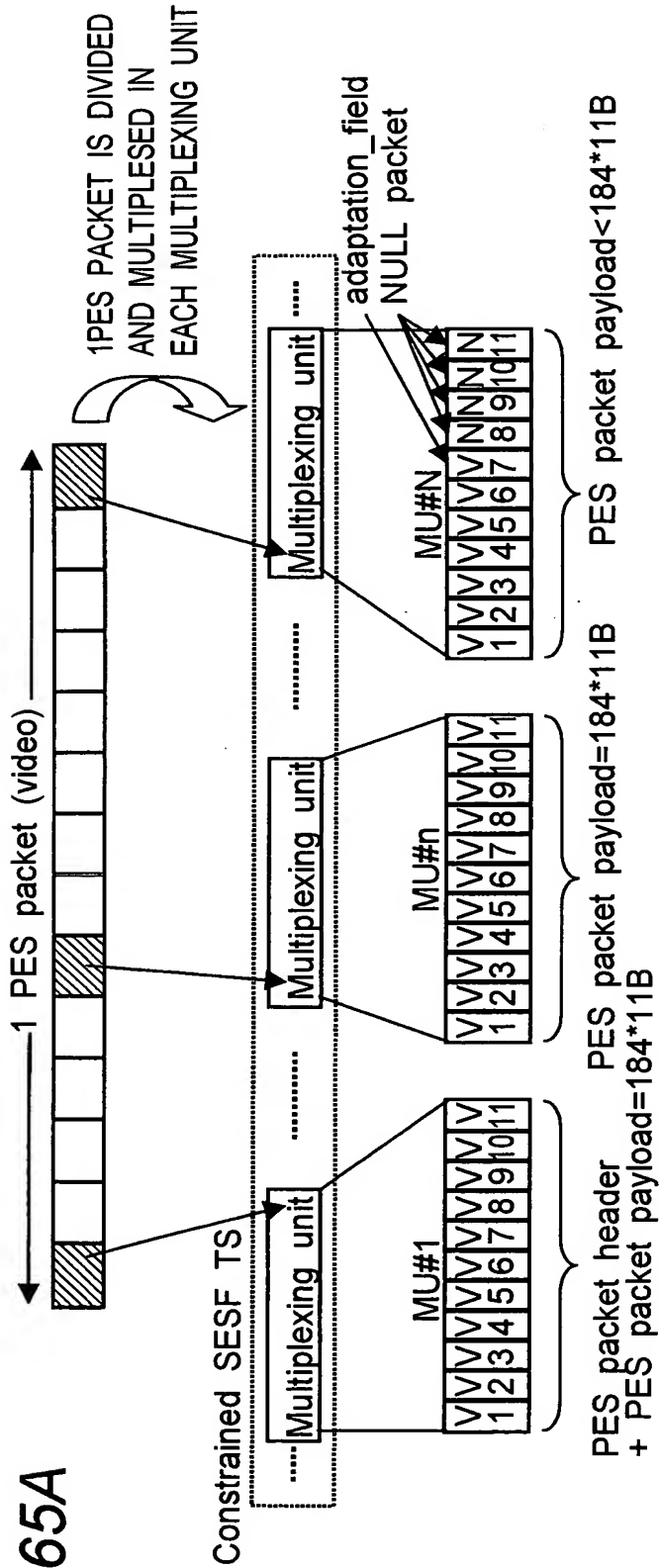


Fig. 65B

PACK CONVERTED FROM MU#1

pack header (14B)	packet header (9+"PES_header_data_length"B)	video data (MU#1 PES packet payload DATA)	padding packet (10B)
----------------------	--	--	-------------------------

PACK CONVERTED FROM MU#n

pack header (14B)	packet header (9+1(stuffing_byte)B)	video data (MU#n PES packet payload DATA)	
----------------------	--	--	--

PACK CONVERTED FROM MU#n

pack header (14B)	packet header (9B)	video data (MU#n PES packet payload DATA)	padding packet
----------------------	-----------------------	--	----------------

2048B

Diagram description: This figure shows the conversion of three Multiplexing Units (MU#1, MU#n, and MU#n) into three separate packets. Each packet is shown as a table with four columns: pack header (14B), packet header, video data, and padding packet. The first packet (MU#1) has a packet header of (9+"PES_header_data_length"B) and a video data payload of (MU#1 PES packet payload DATA). The second packet (MU#n) has a packet header of (9+1(stuffing_byte)B) and a video data payload of (MU#n PES packet payload DATA). The third packet (MU#n) has a packet header of (9B) and a video data payload of (MU#n PES packet payload DATA). The total size of the three packets is 2048B.

Fig. 66A

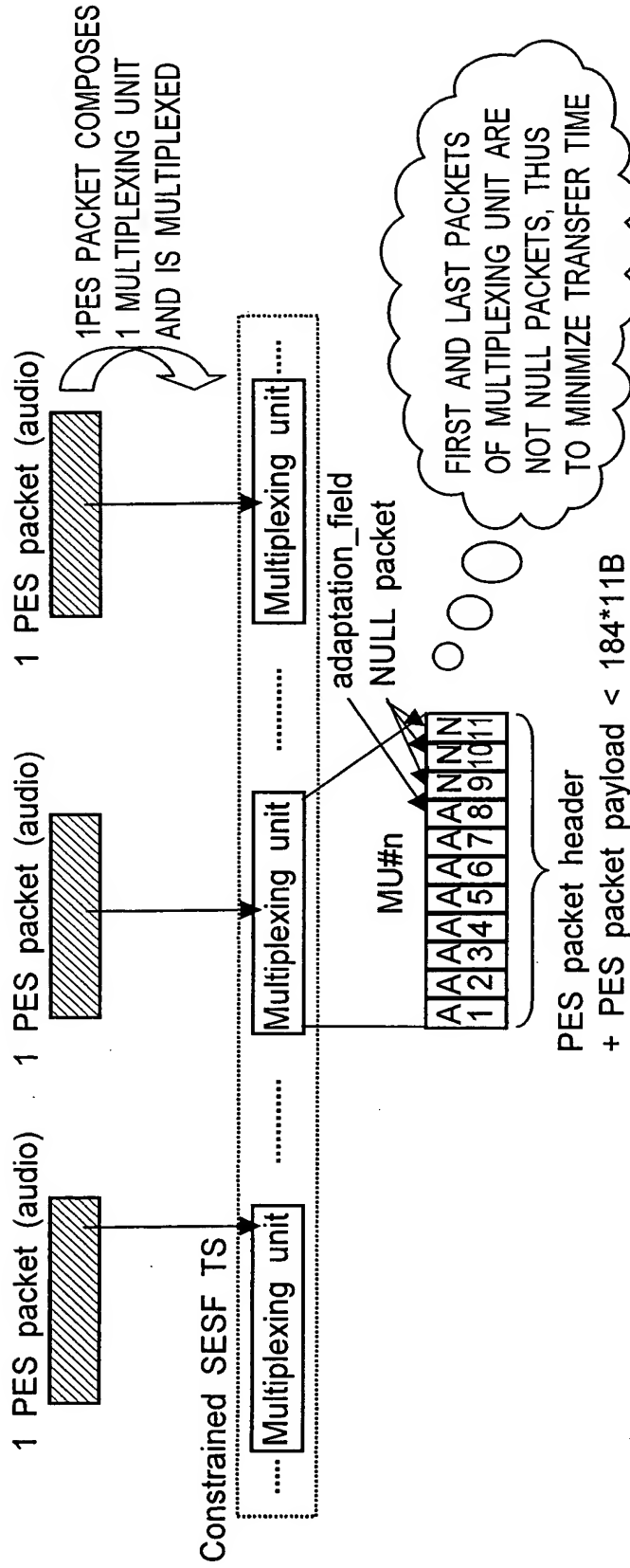


Fig. 66B

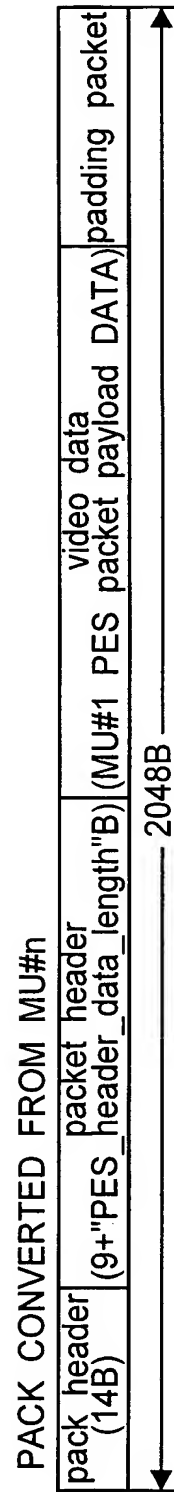


Fig.67

BIT RATE ALLOWED IN Constrained SESF	MAXIMUM BYTE LENGTH OF PES PACKET PAYLOAD (AC-3 audio)	MAXIMUM BYTE LENGTH OF PES PACKET PAYLOAD (MPEG1-audio)
64 Kbps	1792	1920
80 Kbps	1920	1920
96 Kbps	1920	1728
112 Kbps	1792	1680
128 Kbps	1536	1920
160 Kbps	1920	1920
192 Kbps	1536	1728
224 Kbps	1792	1344
256 Kbps	1024	1536
320 Kbps	1280	1920
384 Kbps	1536	1152
448 Kbps	1792	N/A

Fig. 68

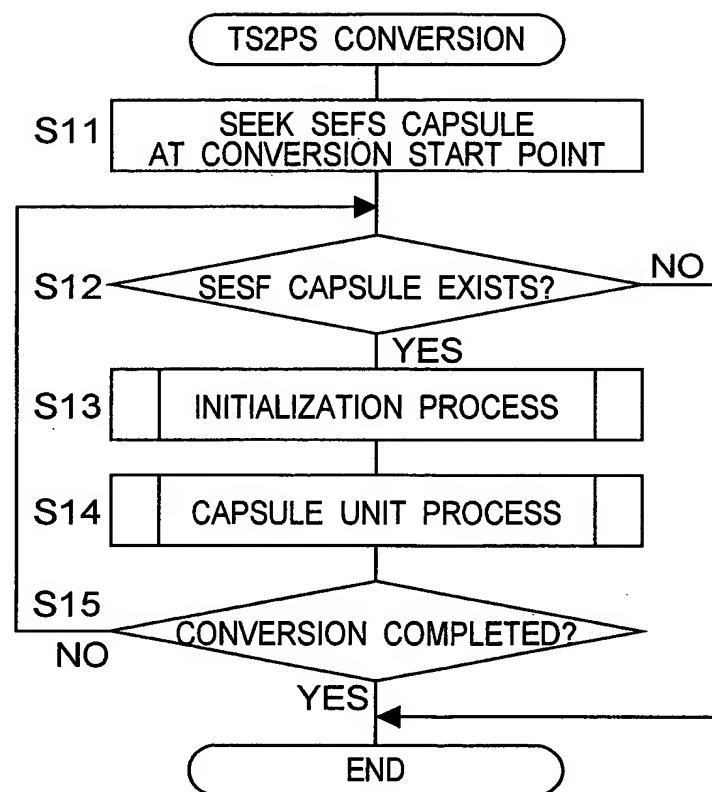


Fig. 69

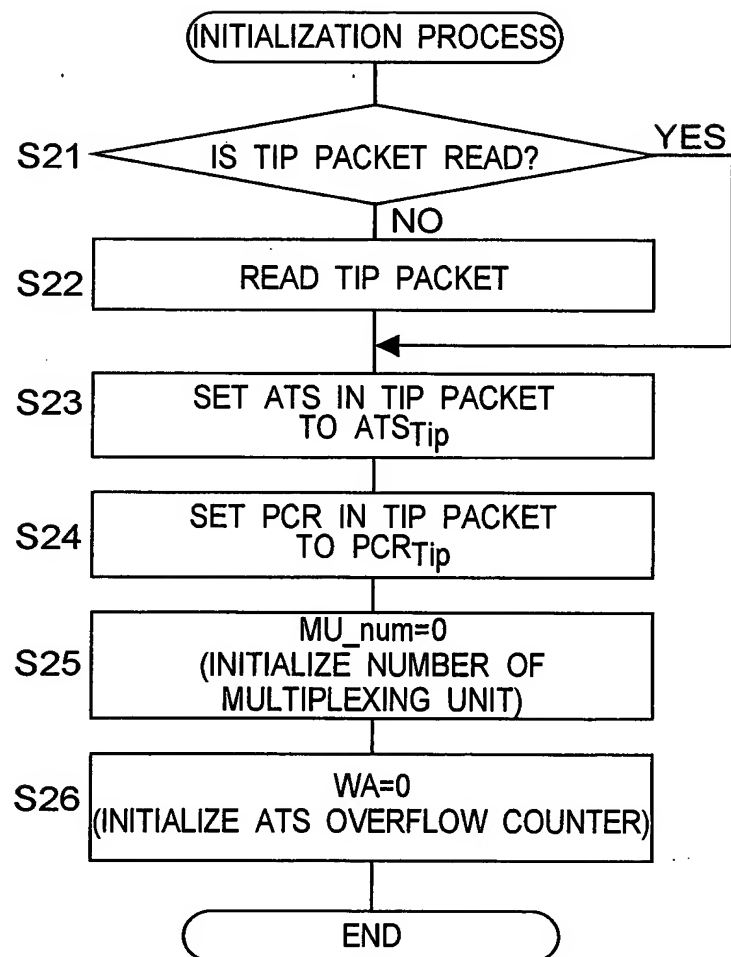


Fig.70

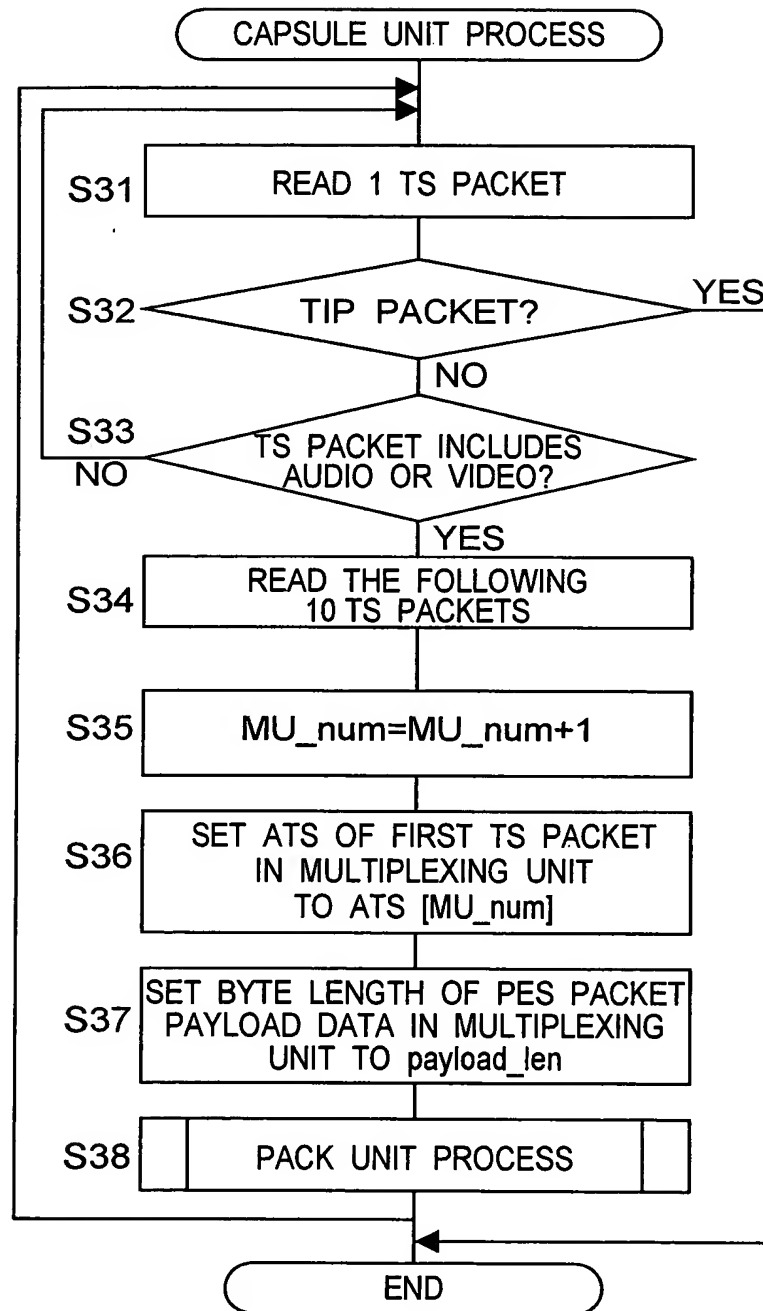


Fig. 71

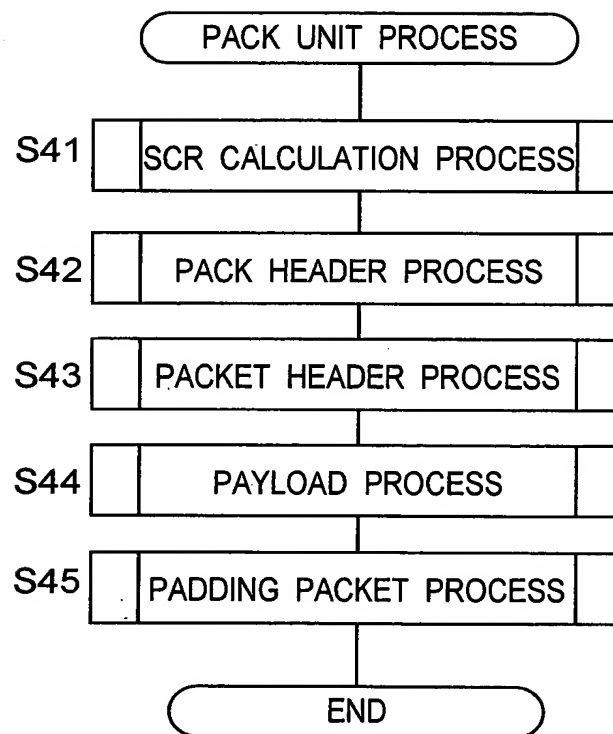


Fig. 72

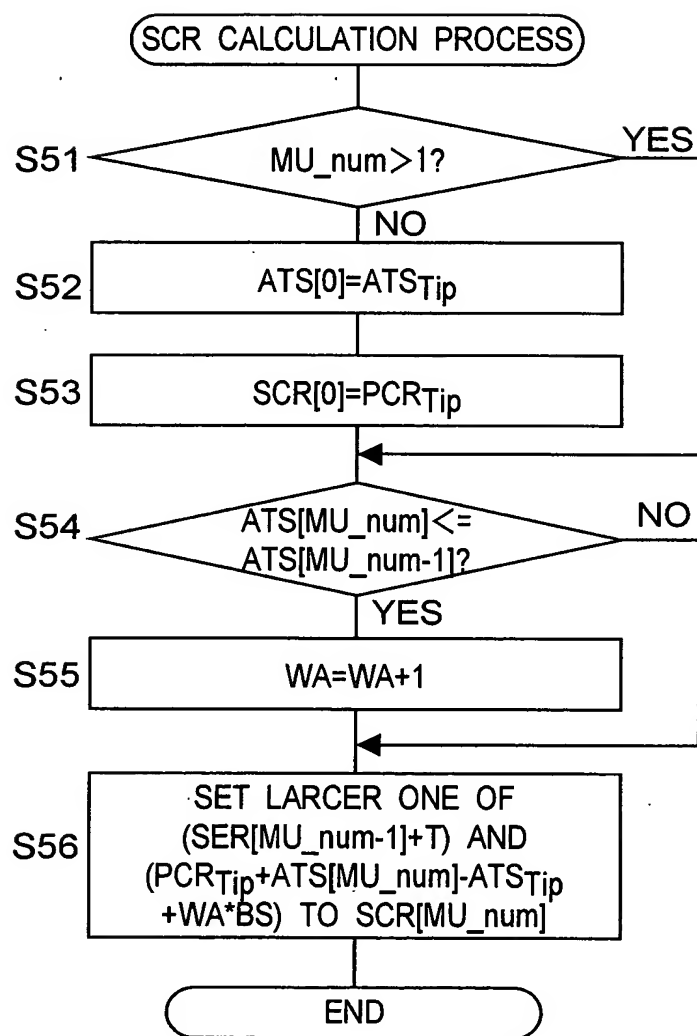


Fig. 73

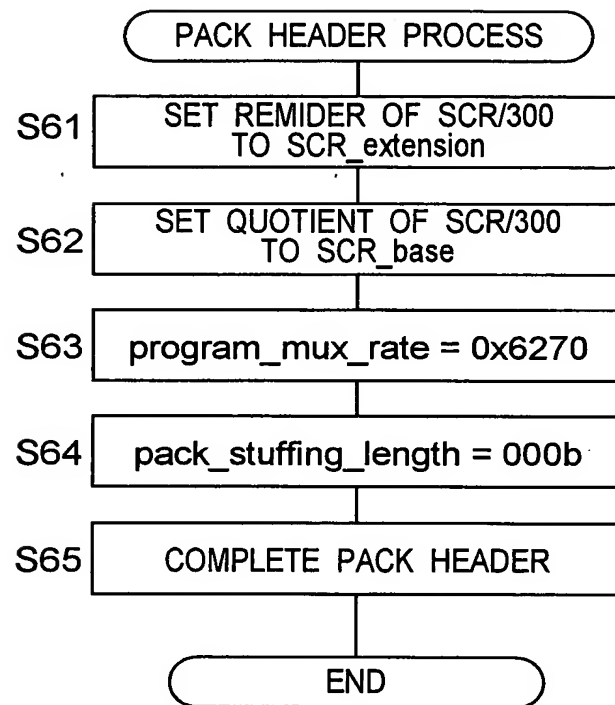


Fig. 74

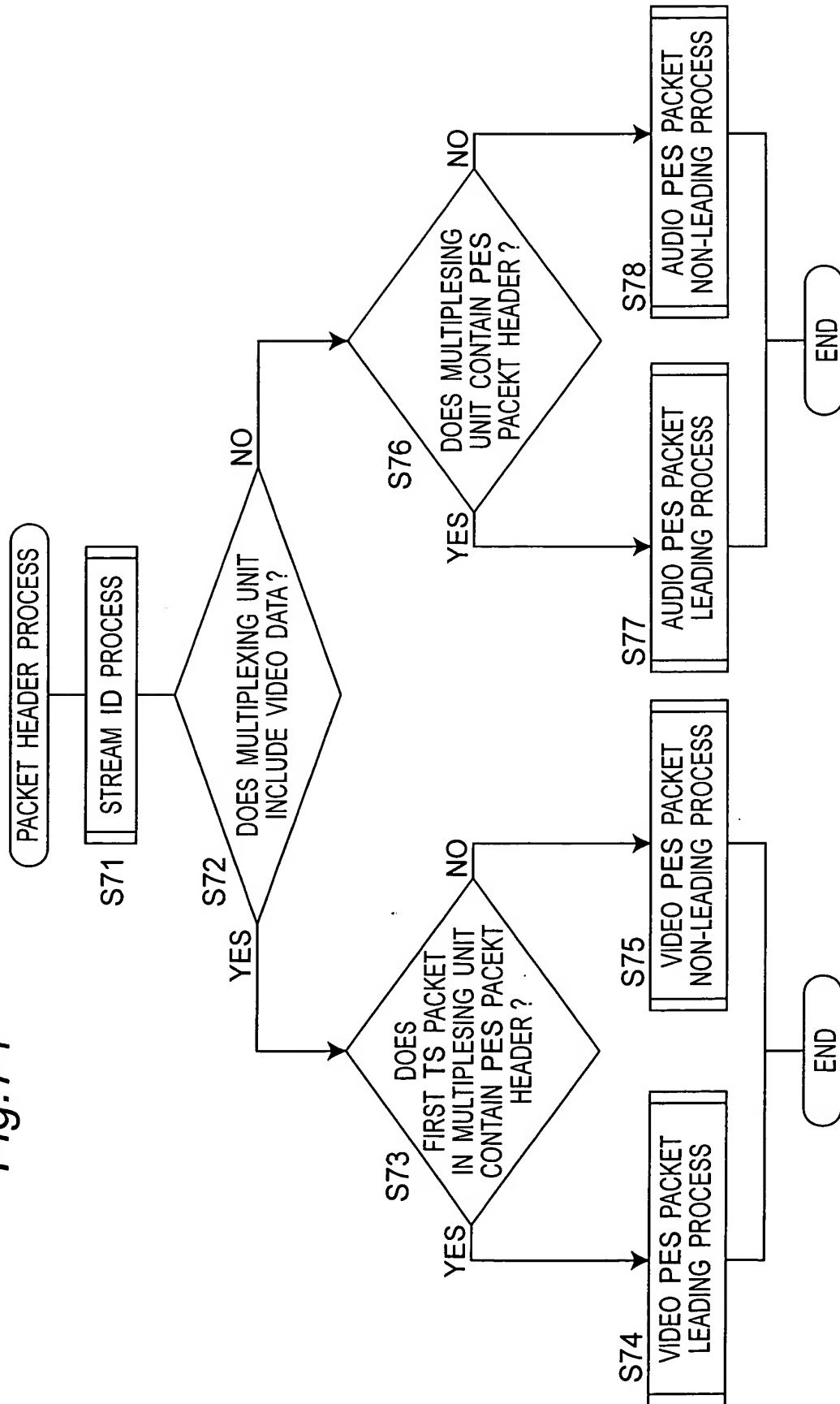


Fig.75

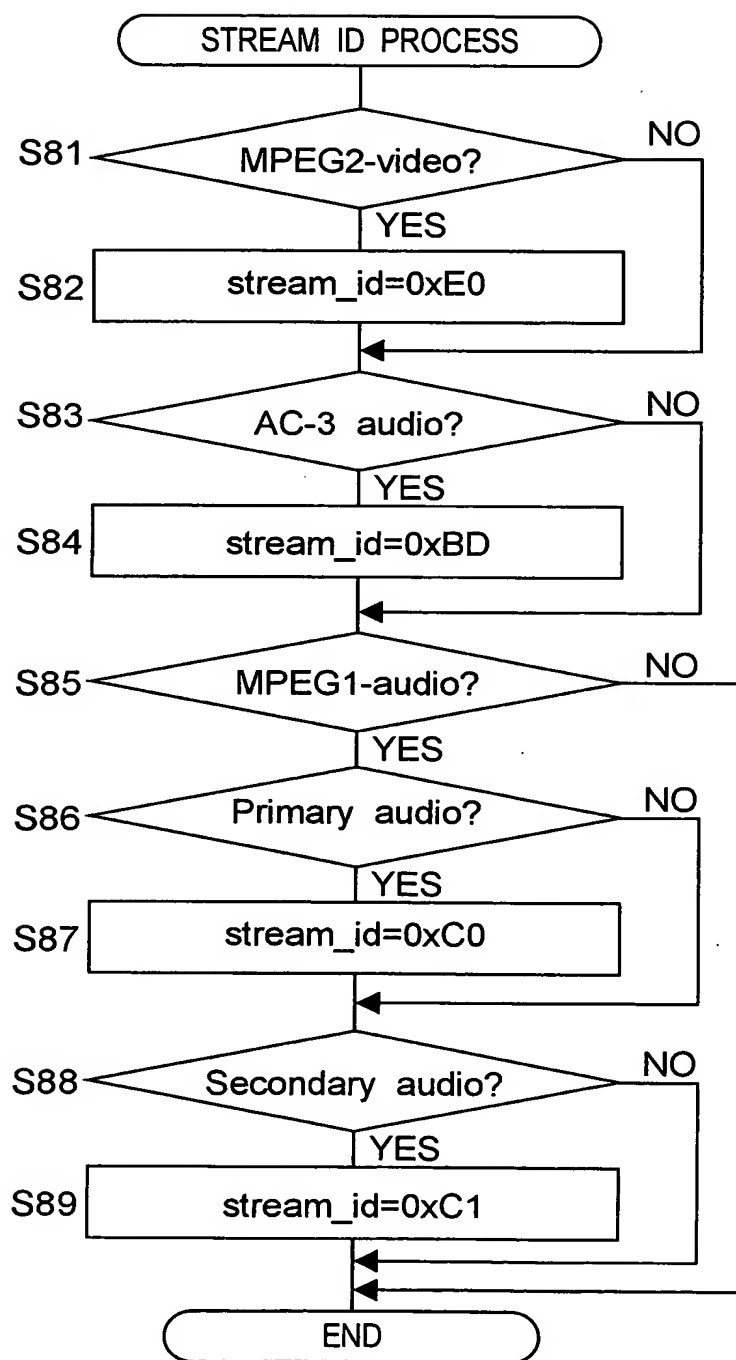


Fig. 76A

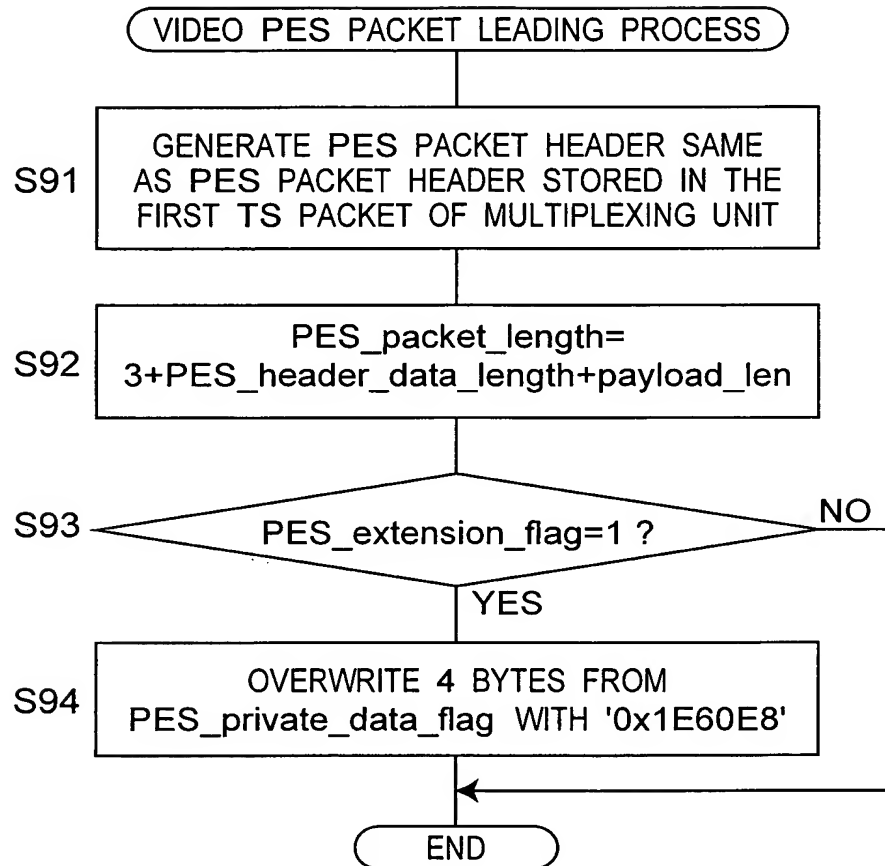


Fig. 76B

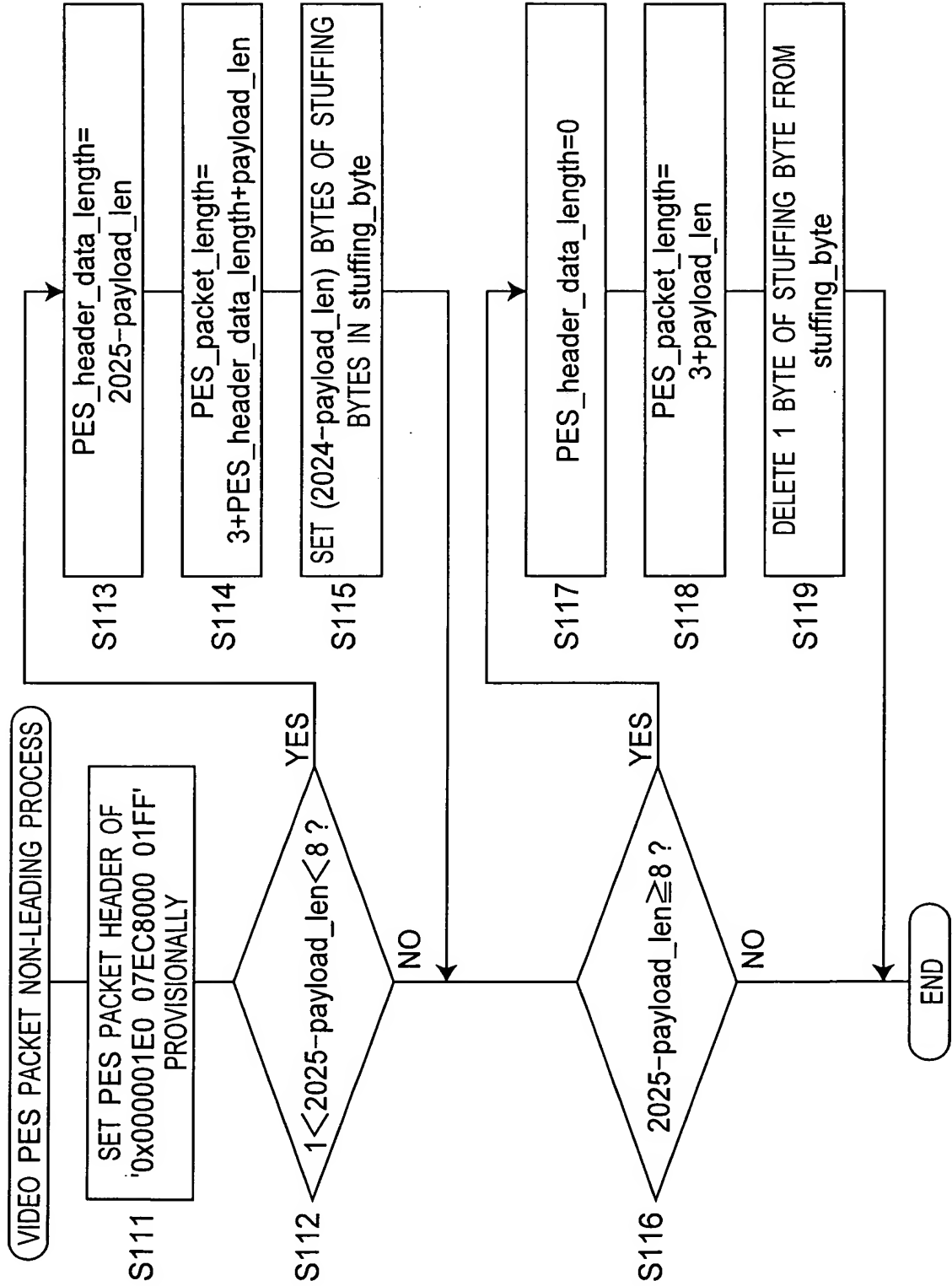


Fig. 77A

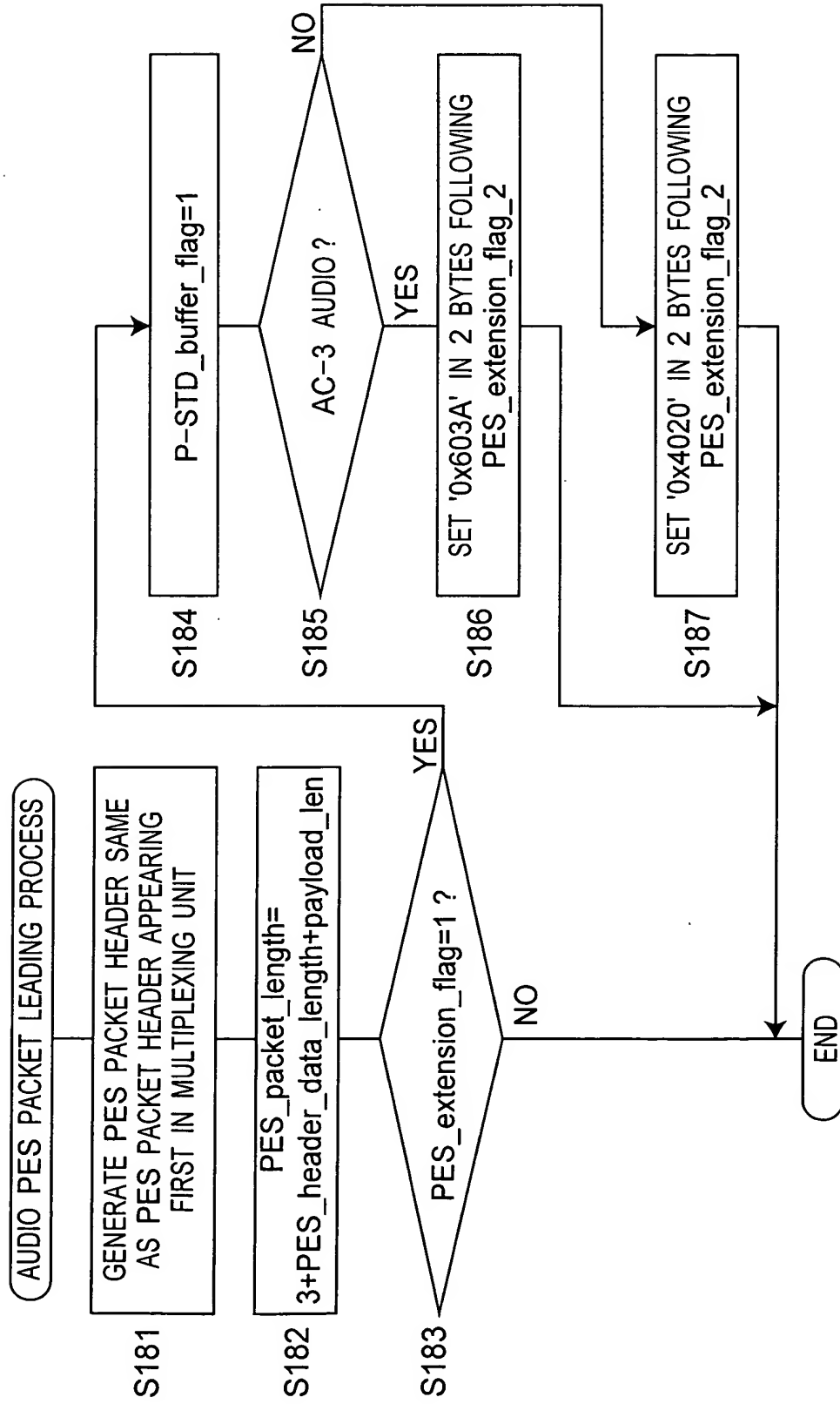


Fig.77B

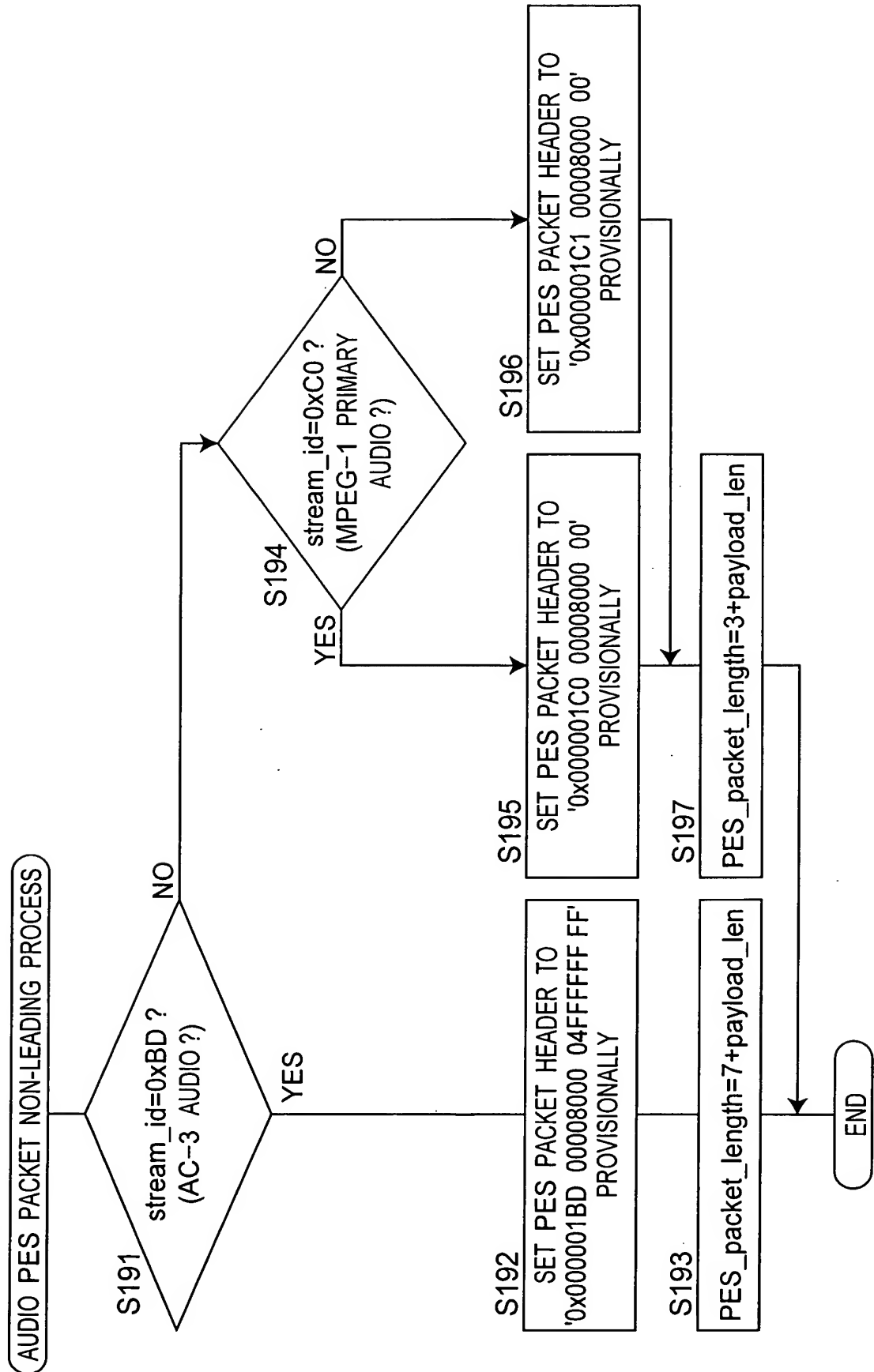


Fig.78

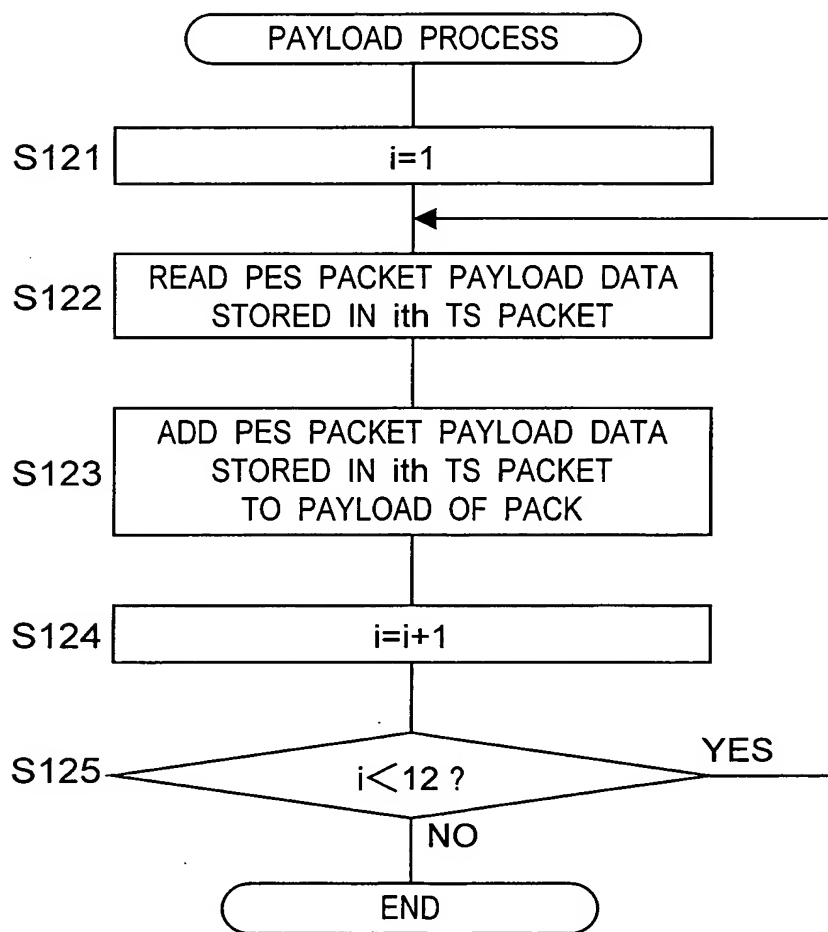


Fig.79

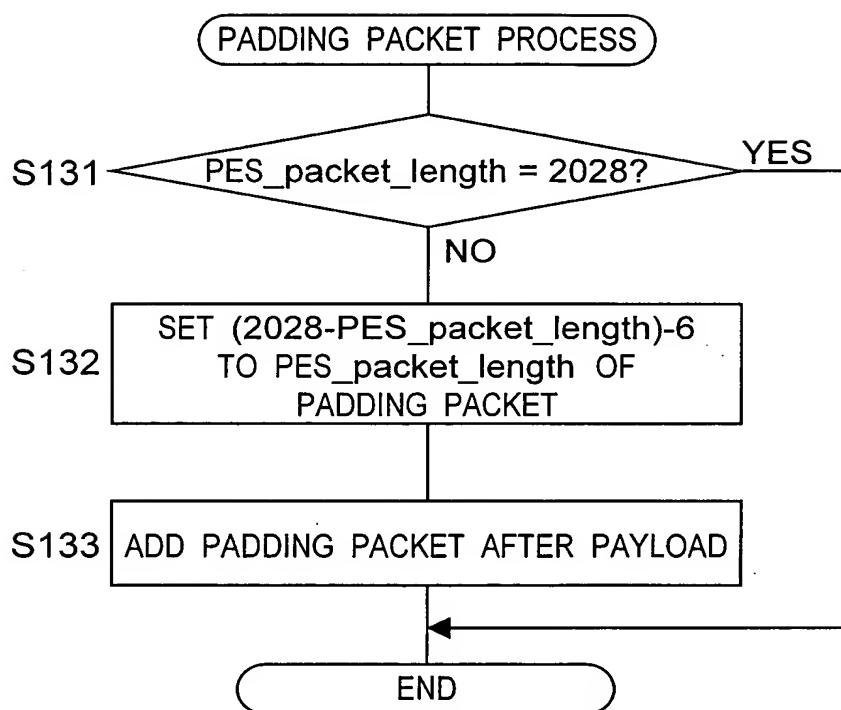


Fig. 80

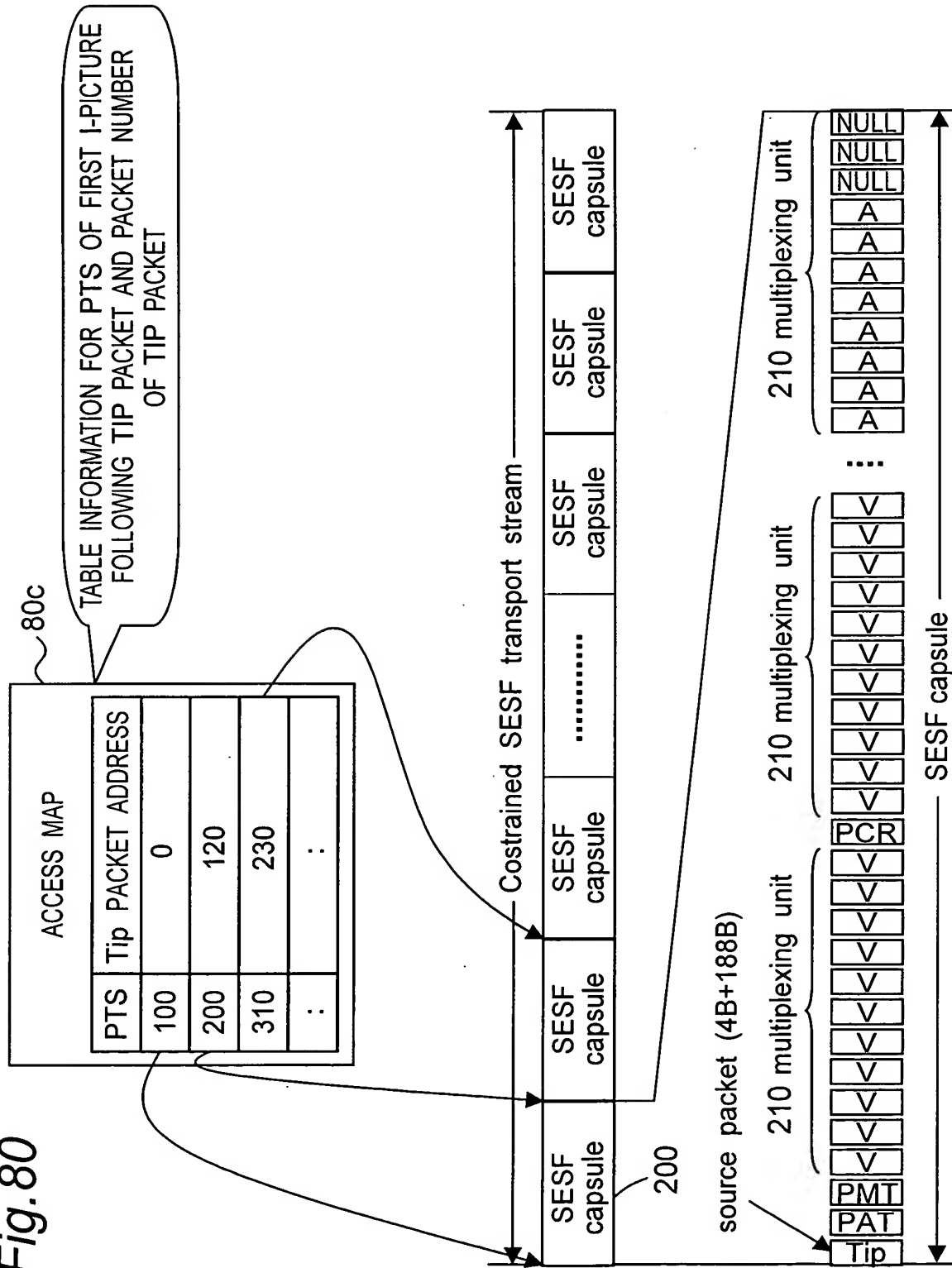


Fig. 81

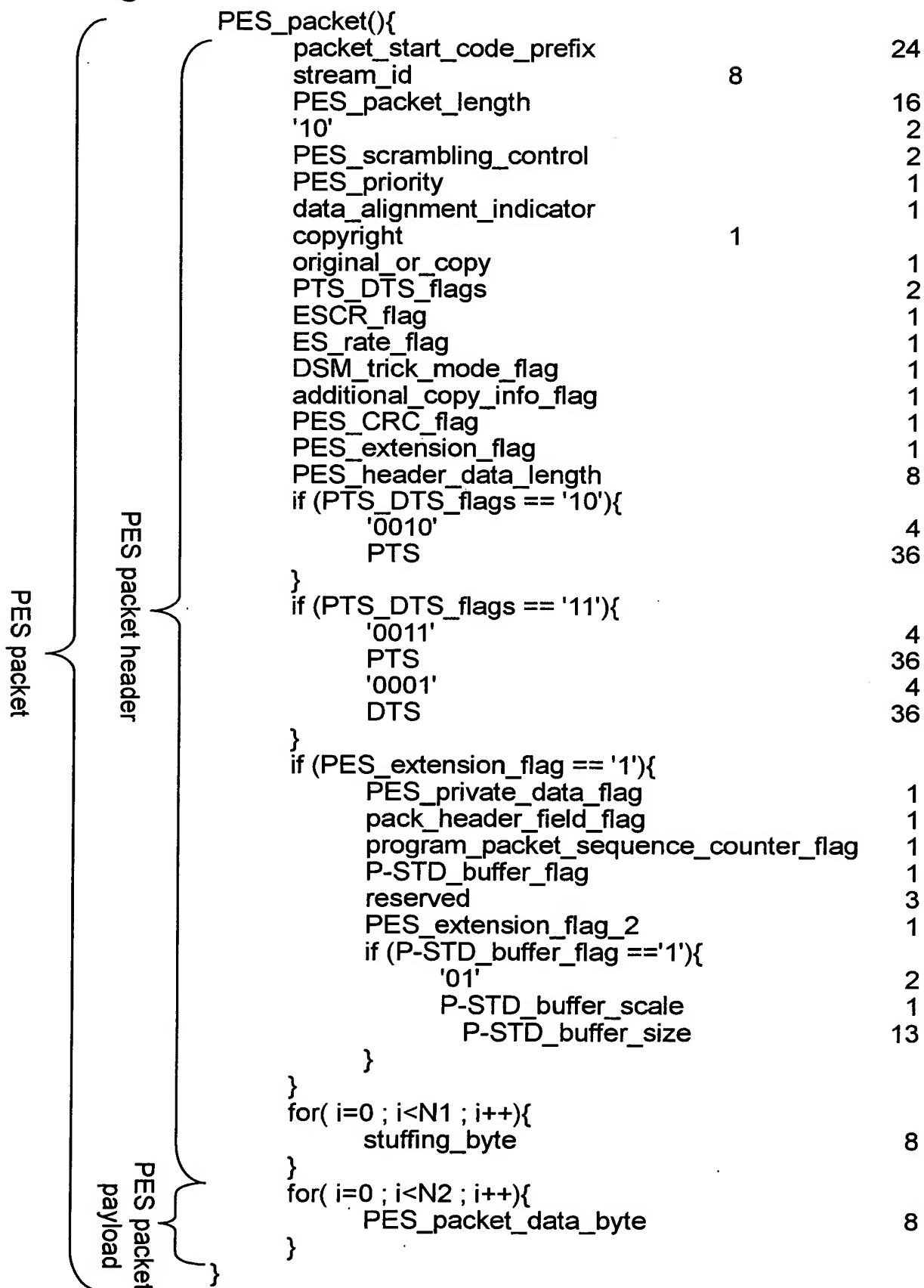


Fig.82

CALCULATION OF INTERNAL DATA OF NV_PCK		
	FIELD	CALCULATION METHOD
Pack header	SC	CALCULATE FROM ATS AND PCR OF Tip PACKET, AND ATS OF A HEAD Tip PACKET IN Multiplexing unit.
	NV_PCK_LBN	COUNT PACKS CONVERTED IN THE CONVERSION.
PCI data	VOBU_S_PTM	CALCULATE FROM FVFPST OF Tip PACKET.
	VOBU_E_PTM	CALCULATE FROM FVFPST OF NEXT Tip PACKET. ONLY FOR THE LAST NV_PCK, THE VALUE IS EQUAL TO VOB_V_E_PTM.
	VOBU_SE_E_PTM	EXCEPT FOR THE LAST NV_PCK, 0x00 IS FILLED. FOR THE LAST NV_PCK, THE VALUE IS EQUAL TO VOB_V_E_PTM.
	C_ELT	CALCULATE FROM VOB_U_S_PTM OF A HEAD VOB IN CELL AND VOB_U_S_PTM OF THE VOB
DSI data	NV_PCK_SCR	ASSIGN SCR OF NV_PCK TO THIS FILED
	NV_PCK_LBN	SAME TO PCI data
	VOBU_EA	COUNT DURING TS2PS TO ASSIGN, OR CALCULATION FROM ACCESS MAP
	VOBU_1STREF_EA	COUNT PACKS UNTIL THE LAST PACK OF THE FIRST PES PACKET AFTER TS2PS CONVERSION OF WHICH picture_coding_type IS 01b OR 10b OF Tip PACKET, AND ASSIGN THE COUNT TO THIS FIELD.
	VOBU_2NDREF_EA	COUNT PACKS UNTIL THE LAST PACK OF SECOND PES PACKET AFTER TS2PS CONVERSION OF WHICH picture_coding_type IS 01b OR 10b OF Tip PACKET TO SUBSTITUTE.
	VOBU_3RDREF_EA	COUNT PACKS UNTIL THE LAST PACK OF THIRD PES PACKET AFTER TS2PS CONVERSION OF WHICH picture_coding_type IS 01b OR 10b OF Tip PACKET TO SUBSTITUTE.
	VOBU_C_IDN	ASSIGN THE NUMBER OF CELL TO WHICH THE CORRESPONDING NV_PCK IS BELONG (DESIGNATED BY RECORDER/USER)
	C_ELT	SAME TO PCI data
	VOB_V_S_PTM	ASSIGN VOB_U_S_PTM OF THE FIRST VOB.
	VOB_V_E_PTM	ASSIGN REPRODUCTION END TIME OF CONVERSION SECTION (IT MAY BE OBTAINED BEFORE TS2PS CONVERSION)
	VOBU_SRI	INFORMATION IS EXTRACTED WITH A SET OF NV_PCK_LBN AND VOB_U_S_PTM ON TS2PS CONVERSION AND THEN ASSIGNED IT TO THIS FIELD. ALTERNATELY, A VALUE CALCULATED FROM ACCESS MAP.
	A_SYNCA	COMPARING VOB_U_S_PTM OF NV_PCK WITH AUDIO PTS, THE NUMBER OF PACKS COUNTED TO ONE PACK BEFORE THE PACK AUDIO PTS IS GREATER THAN VOB_U_S_PTM AT THE FIRST TIME IS ASSIGNED TO THIS FIELD.

Fig. 83A

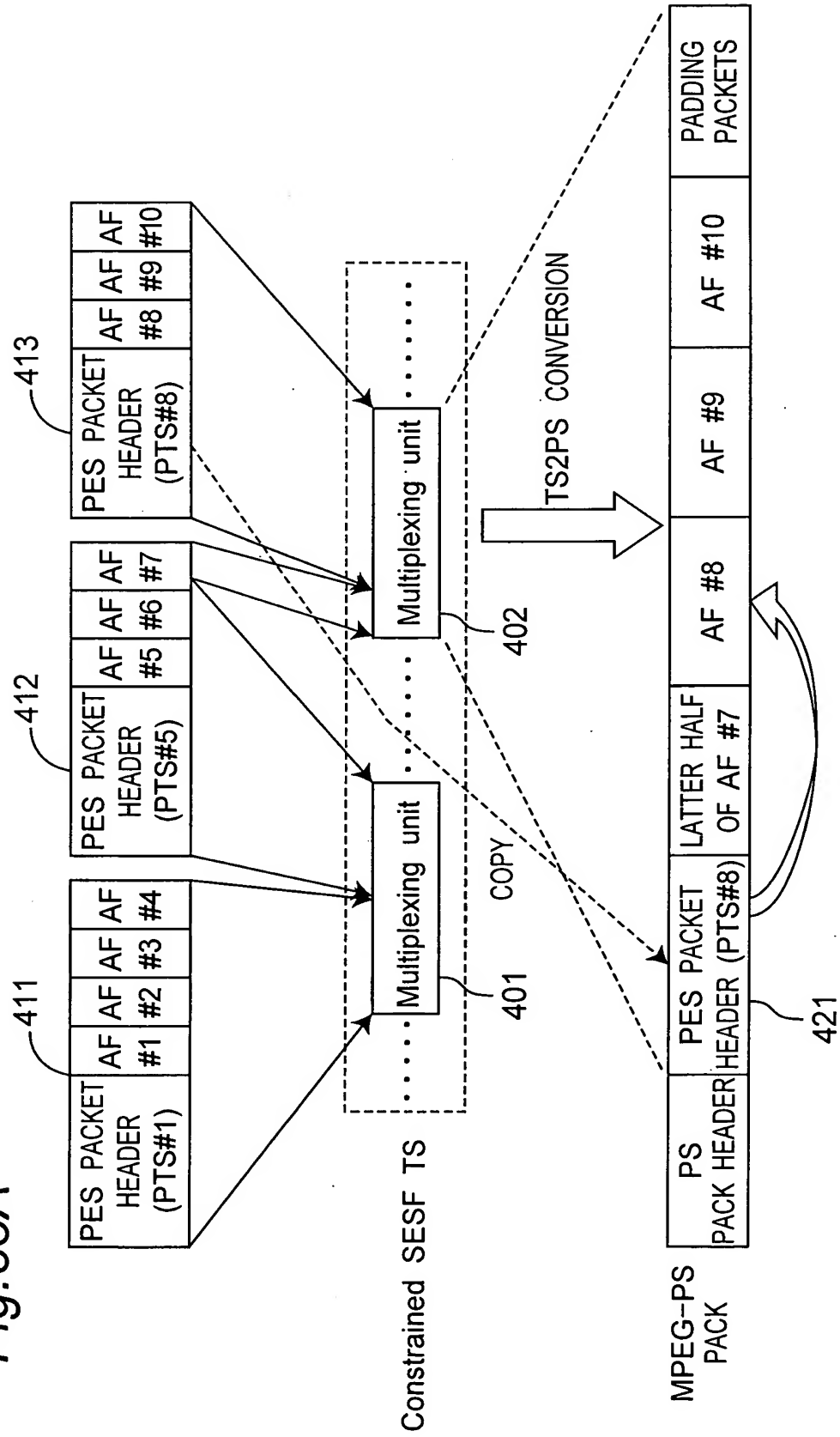
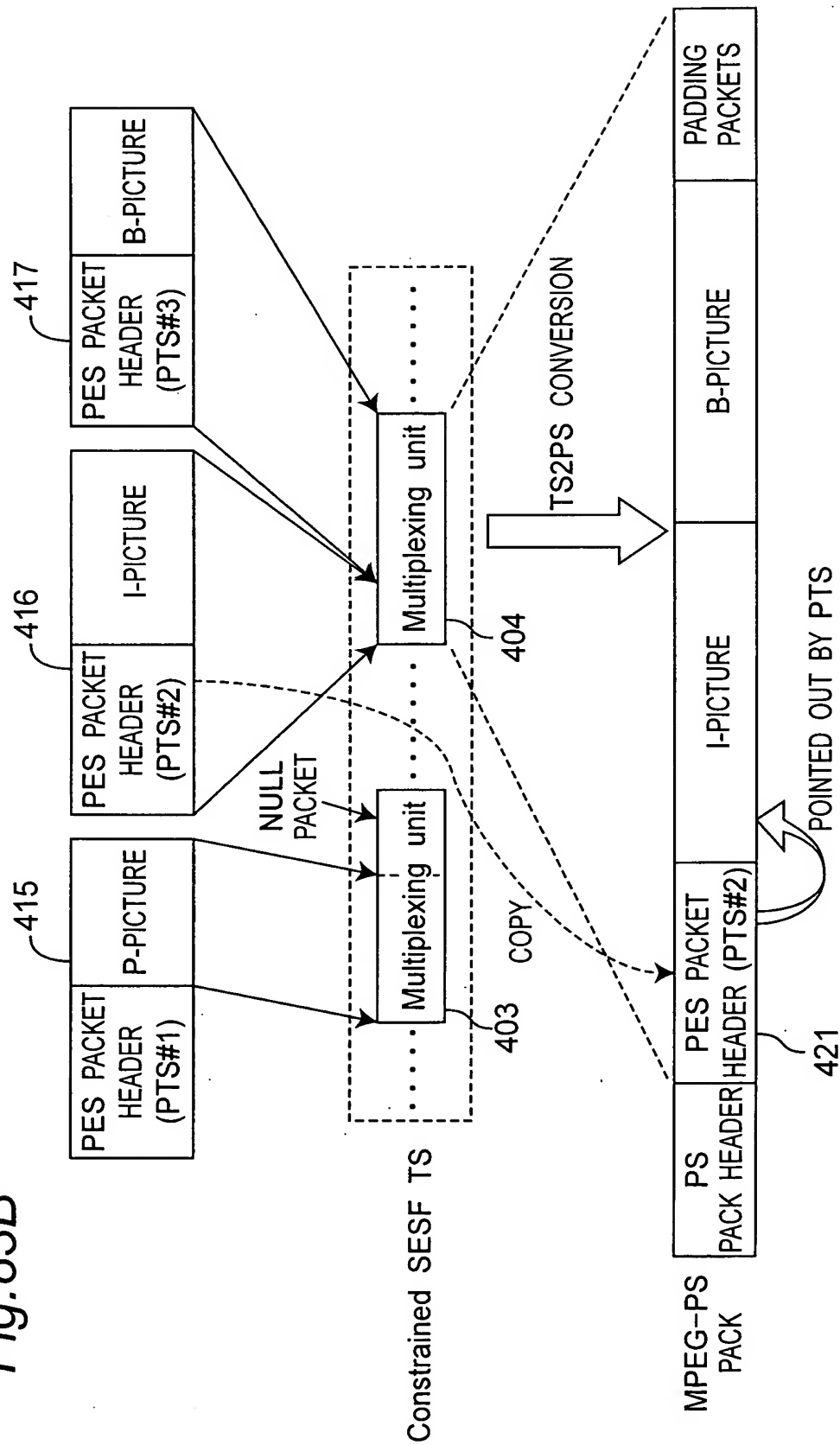


Fig. 83B



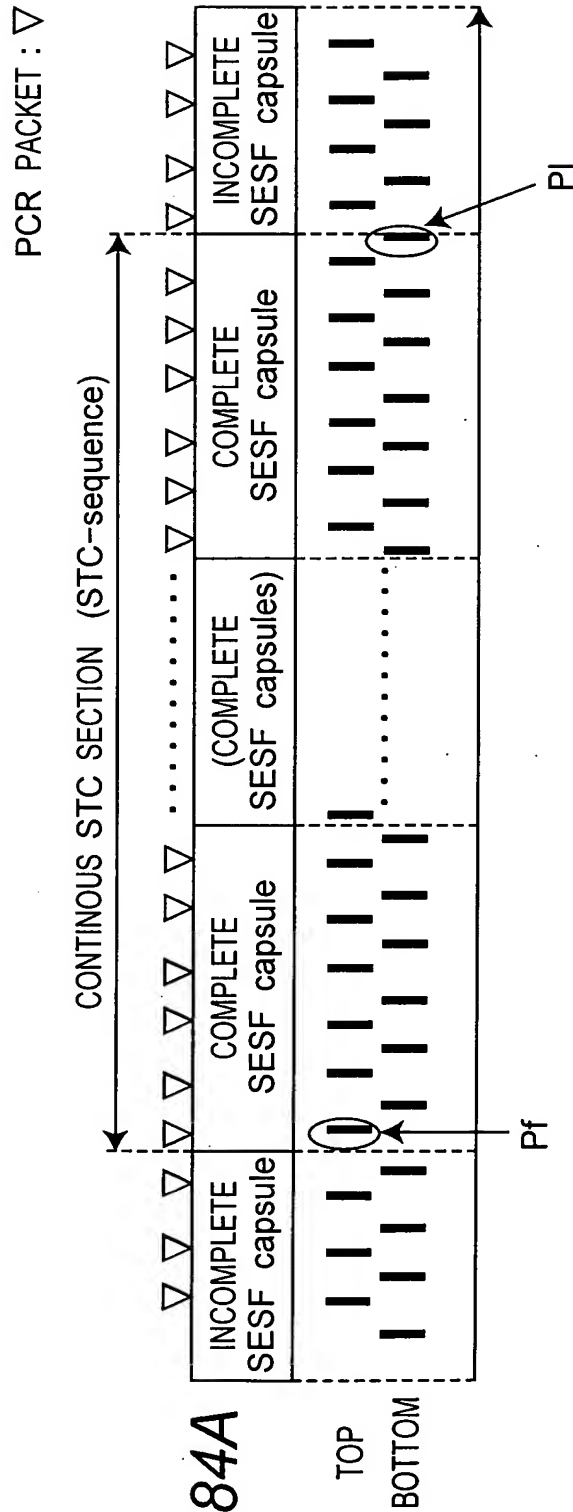


Fig. 84A

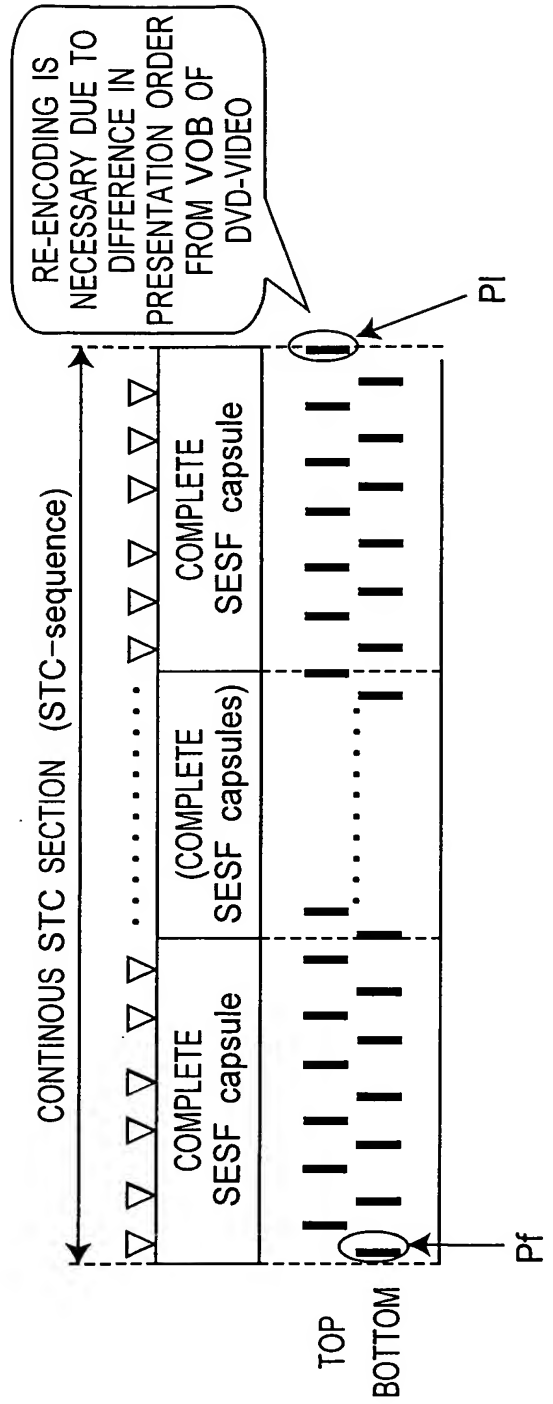


Fig. 84B

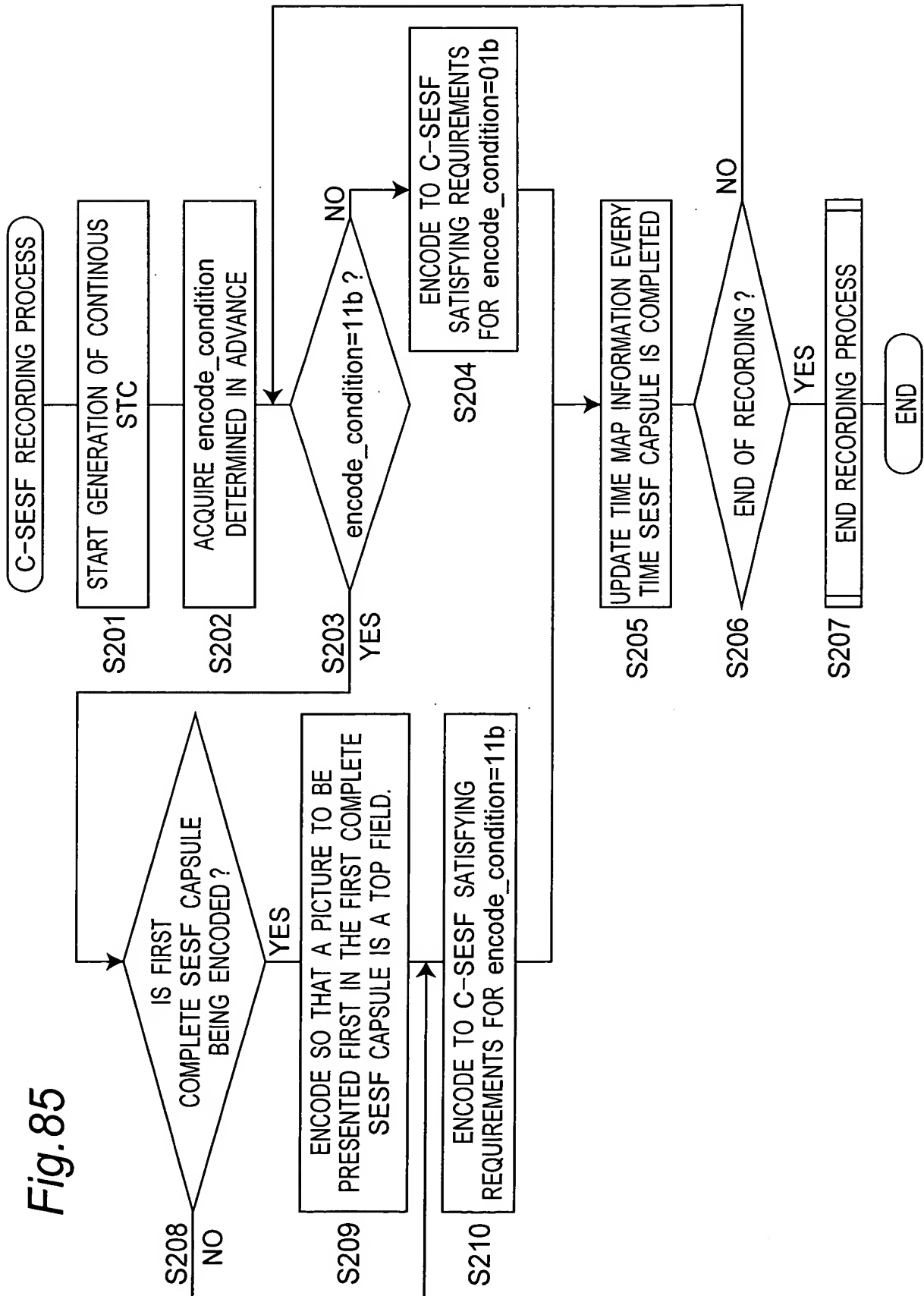


Fig. 86

